Supplementary Materials

BP Neural Network Modeling Data：

MSC Processing：

Number of Hidden Layer Neurons5	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9191	0.1682	0.018	12.33%		0.8752	0.2226	0.0247	19.28%
traingd	0.1148	0.6418	-0.0582	51.24%		0.0003	0.8003	0.0395	80.03%
trainscg	0.8779	0.2082	-0.0085	12.50%		0.8224	0.6022	-0.0189	20.77%
traingdx	0.3408	0.603	-0.0143	48.81%		0.3664	0.694	-0.0644	60.58%
trainbfg	0.9285	0.1444	0.0076	8.42%		0.8825	0.165	0.0009	11.92%
traincgb	0.8639	0.2406	-0.0051	17.13%		0.8032	0.3139	0.0598	28.28%

Number of Hidden Layer Neurons6	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9134	0.1471	-0.0468	10.96%		0.8715	0.1748	-0.0339	12.45%
traingd	0.6087	0.4772	-0.0817	35.60%		0.4577	0.5012	-0.0042	34.76%
trainscg	0.8944	0.2189	0.0154	16.35%		0.8183	0.2296	0.0249	19.13%
traingdx	0.825	0.3132	0.0167	22.69%		0.7431	0.3387	0.0015	22.39%
trainbfg	0.9231	0.1532	-0.0032	11.36%		0.8786	0.178	-0.0009	12.27%
traincgb	0.9018	0.1918	-0.0074	13.10%		0.8553	0.2156	-0.0189	13.74%

Number of Hidden Layer Neurons7	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9314	0.1623	-0.0001	10.34%		0.8527	0.1439	-0.0157	11.33%
traingd	0.6557	0.4862	0.007	35.53%		0.5607	0.4132	0.0255	38.03%
trainscg	0.9109	0.1581	0.0067	10.43%		0.8396	0.1428	-0.0625	12.57%
traingdx	0.8837	0.2429	-0.0059	15.73%		0.6685	0.2245	-0.0564	20.38%
trainbfg	0.8051	0.3443	-0.0232	25.53%		0.7052	0.3024	-0.0086	26.40%
traincgb	0.8033	0.3297	-0.0238	20.33%		0.6056	0.336	-0.0448	28.11%

Number of Hidden Layer Neurons8	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
traingd	0.7817	0.284	0.0193	19.61%		0.8689	0.2488	0.0456	18.22%
trainscg	0.8898	0.2113	-0.0036	16.04%		0.8866	0.2257	0.0696	17.00%
traingdx	0.802	0.2784	-0.0336	17.89%		0.7881	0.3141	0.0457	19.02%
trainbfg	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
traincgb	0.8951	0.1855	0.0103	12.44%		0.882	0.203	0.1191	12.60%

Number of Hidden Layer Neurons9	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9504	0.1335	0.0023	11.03%		0.8534	0.1999	-0.044	16.22%
traingd	0.5339	0.5098	0.0497	41.26%		0.1943	0.6012	0.0082	50.14%
trainscg	0.8957	0.2141	-0.012	14.56%		0.8745	0.2206	-0.0304	14.77%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.881	0.2047	-0.0249	14.13%		0.8503	0.2333	-0.0794	15.80%
traincgb	0.8959	0.1746	-0.0101	11.45%		0.8805	0.1835	-0.0775	11.53%

Number of Hidden Layer Neurons10	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9405	0.1283	-0.0203	8.56%		0.8359	0.1421	-0.0473	9.75%
traingd	0.5532	0.505	0.0288	36.39%		0.456	0.5122	-0.0954	36.81%
trainscg	0.9166	0.1746	-0.0107	13.12%		0.864	0.1536	-0.0158	10.60%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.7113	0.3963	-0.0426	27.32%		0.6618	0.3647	0.0066	26.33%
traincgb	0.9224	0.1696	0.0033	11.63%		0.8332	0.184	-0.0292	12.28%

Number of Hidden Layer Neurons11	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
traingd	0.5322	0.5131	0.0046	34.84%		0.5728	0.4839	0.0395	32.50%
trainscg	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
traingdx	0.0849	0.7312	0.0465	50.83%		0.1501	0.7346	-0.0619	50.09%
trainbfg	0.866	0.2169	-0.0026	17.10%		0.9293	0.1895	-0.0075	16.47%
traincgb	0.7734	0.3175	0.0036	20.89%		0.8995	0.2434	0.0076	14.98%

Number of Hidden Layer Neurons12	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9426	0.1363	0.007	8.05%		0.8438	0.2151	-0.0142	16.35%
traingd	0.75	0.2959	-0.025	20.62%		0.7221	0.3412	-0.1368	24.94%
trainscg	0.9286	0.1424	-0.01	8.19%		0.8164	0.2238	-0.0603	17.95%
traingdx	0.8775	0.217	0.0259	13.54%		0.8259	0.2742	0.0222	20.53%
trainbfg	0.9294	0.1379	-0.0025	9.40%		0.8547	0.207	0.0335	16.74%
traincgb	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

Number of Hidden Layer Neurons13	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8885	0.1479	-0.0143	9.38%		0.9316	0.1674	-0.0485	10.77%
traingd	0.5587	0.4846	0.0164	36.77%		0.5983	0.5081	0.0078	42.87%
trainscg	0.864	0.1961	0.0211	14.57%		0.9192	0.2033	-0.0474	13.33%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.8145	0.2736	0.0027	18.66%		0.865	0.283	0.037	22.73%
traincgb	0.8818	0.194	-0.0054	15.05%		0.9289	0.1983	-0.0311	15.76%

Number of Hidden Layer Neurons14	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
traingd	0.6566	0.4223	0.0499	31.05%		0.4416	0.5553	0.0377	48.57%
trainscg	0.8761	0.2136	0.0054	14.17%		0.8799	0.2258	0.0705	22.37%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.876	0.2174	0.0141	15.92%		0.8948	0.2495	0.0361	21.34%
traincgb	0.7732	0.343	-0.0386	23.44%		0.7166	0.412	-0.0505	32.70%

Number of Hidden Layer Neurons15	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
traingd	0.629	0.4157	0.0294	36.87%		0.5024	0.4835	-0.0082	49.45%
trainscg	0.8595	0.2075	-0.0141	14.55%		0.9324	0.2024	0.0194	15.23%
traingdx	0.8703	0.2094	0.0116	16.57%		0.9207	0.2068	0.0125	14.70%
trainbfg	0.8902	0.1862	0.0039	13.72%		0.9127	0.203	0.0347	14.14%
traincgb	0.8536	0.2176	-0.0337	14.98%		0.8503	0.2789	-0.108	21.25%

Smooth Processing：

Number of Hidden Layer Neurons5	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8968	0.2077	-0.0366	15.53%		0.7979	0.2845	0.0289	21.67%
traingd	0.6432	0.4622	0.0012	37.39%		0.6526	0.4655	0.0429	40.55%
trainscg	0.7307	0.3486	-0.0007	30.18%		0.768	0.3458	0.0119	31.16%
traingdx	0.3117	0.6282	-0.1378	44.98%		0.2754	0.6216	-0.2011	45.50%
trainbfg	0.7491	0.3616	-0.0376	29.22%		0.7842	0.3596	-0.0358	30.36%
traincgb	0.7721	0.2483	-0.0586	20.92%		0.8575	0.2654	-0.0035	24.84%

Number of Hidden Layer Neurons6	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9253	0.1564	0.0025	15.28%		0.6467	0.2849	-0.0598	26.50%
traingd	0.7102	0.3695	0.0118	31.48%		0.6362	0.4863	-0.0658	37.65%
trainscg	0.8265	0.2582	0.0384	25.17%		0.6345	0.4032	0.0036	36.99%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.8481	0.2552	-0.0215	23.91%		0.6353	0.3931	-0.061	34.47%
traincgb	0.8095	0.2916	-0.0214	28.10%		0.6421	0.403	-0.0711	35.38%

Number of Hidden Layer Neurons7	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.843	0.2615	-0.0011	22.32%		0.807	0.321	0.028	25.53%
traingd	0.7228	0.3673	0.0074	31.70%		0.7134	0.417	-0.0658	30.33%
trainscg	0.7158	0.3715	-0.0324	31.08%		0.7003	0.4123	-0.1037	28.30%
traingdx	0.5599	0.5096	-0.0417	39.39%		0.6224	0.5122	-0.1142	36.49%
trainbfg	0.7891	0.3025	-0.0004	28.14%		0.7899	0.3308	-0.0195	25.16%
traincgb	0.7337	0.3577	0.0431	31.75%		0.7724	0.3754	0.0359	28.91%

Number of Hidden Layer Neurons8	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.7239	0.2836	0.0735	30.58%		0.8548	0.2512	0.0625	25.33%
traingd	0.6268	0.4456	-0.0037	33.41%		0.6339	0.4695	-0.0498	32.24%
trainscg	0.7473	0.3516	0.0163	28.77%		0.7747	0.3723	0.0652	29.01%
traingdx	0.7645	0.3163	0.0704	28.84%		0.7854	0.3576	0.0877	28.30%
trainbfg	0.7274	0.3579	-0.0526	31.88%		0.8028	0.3308	0.0024	27.27%
traincgb	0.7068	0.378	0.0172	33.05%		0.7391	0.3837	0.1054	32.28%

Number of Hidden Layer Neurons9	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9138	0.1704	0.0012	14.94%		0.5678	0.3721	0.0232	36.54%
traingd	0.7916	0.3285	0.0101	28.24%		0.7035	0.4229	-0.0168	31.61%
trainscg	0.7519	0.342	0.0148	27.04%		0.6609	0.476	-0.0576	34.38%
traingdx	0.6972	0.3928	-0.08	30.31%		0.5809	0.5237	-0.1376	39.71%
trainbfg	0.824	0.2635	0.0217	25.61%		0.6427	0.4088	-0.0079	37.25%
traincgb	0.8569	0.2382	0.0012	22.86%		0.6281	0.3952	-0.0291	37.04%

Number of Hidden Layer Neurons10	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
traingd	0.6986	0.4228	-0.0094	32.80%		0.6643	0.4234	0.0404	27.52%
trainscg	0.6823	0.4297	0.0249	34.51%		0.6273	0.4581	0.057	31.79%
traingdx	0.4293	0.5942	-0.0733	48.34%		0.454	0.5138	-0.0915	35.24%
trainbfg	0.794	0.3114	-0.0334	27.77%		0.7943	0.3229	0.0111	24.65%
traincgb	0.7507	0.3896	0.0253	32.11%		0.6842	0.4069	0.1184	25.87%

Number of Hidden Layer Neurons11	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.7258	0.3833	-0.1318	30.39%		0.737	0.4122	-0.2048	23.34%
traingd	0.6624	0.4329	0	36.53%		0.6473	0.4662	-0.0824	29.44%
trainscg	0.7022	0.4052	0.0745	35.68%		0.7101	0.4056	-0.0021	24.25%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.7286	0.3689	0.0211	30.34%		0.745	0.3874	-0.0185	22.70%
traincgb	0.7221	0.363	-0.0055	33.15%		0.8086	0.3369	-0.0998	20.18%

Number of Hidden Layer Neurons12	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8868	0.165	-0.0206	15.66%		0.7317	0.2504	-0.0459	18.93%
traingd	0.6467	0.4221	0.0035	34.61%		0.6017	0.4598	-0.0507	35.11%
trainscg	0.6836	0.4048	-0.0278	32.40%		0.6036	0.4522	-0.0436	34.94%
traingdx	0.7687	0.331	-0.0089	29.98%		0.6468	0.3806	-0.0216	34.31%
trainbfg	0.8204	0.2756	-0.0199	24.51%		0.706	0.3203	-0.0626	27.35%
traincgb	0.7392	0.3833	0.0133	30.74%		0.6736	0.4367	-0.0151	32.43%

Number of Hidden Layer Neurons13	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8893	0.2202	-0.0082	18.31%		0.818	0.323	0.0004	28.12%
traingd	0.4868	0.5118	-0.0019	39.15%		0.3089	0.6185	-0.1215	50.22%
trainscg	0.7984	0.2825	0.012	24.35%		0.7465	0.3619	-0.0007	33.17%
traingdx	0.6186	0.4671	-0.0948	32.47%		0.5904	0.5075	-0.0973	32.73%
trainbfg	0.8343	0.2362	-0.0389	20.56%		0.7436	0.2983	-0.0264	31.54%
traincgb	0.7693	0.3202	-0.036	27.43%		0.7402	0.3513	-0.0354	33.58%

Number of Hidden Layer Neurons14	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8436	0.2595	-0.0203	22.45%		0.7649	0.3025	-0.0301	23.49%
traingd	0.6855	0.4148	-0.0018	32.95%		0.7006	0.4198	-0.0629	30.12%
trainscg	0.6745	0.4214	0.0592	33.49%		0.7368	0.4045	0.054	27.83%
traingdx	0.7452	0.3343	-0.0226	30.47%		0.7526	0.3318	-0.0621	25.97%
trainbfg	0.8124	0.2367	-0.0145	21.79%		0.6921	0.3023	-0.0366	23.89%
traincgb	0.7986	0.3023	-0.0078	27.81%		0.7704	0.3025	-0.0194	24.73%

Number of Hidden Layer Neurons15	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.631	0.496	0.0974	40.75%		0.4509	0.5239	0.1181	43.31%
traingd	0.6512	0.4635	-0.0299	35.47%		0.5918	0.4473	0.0584	34.41%
trainscg	0.6709	0.4485	-0.0947	32.78%		0.5842	0.458	-0.028	33.47%
traingdx	0.791	0.3384	0.0739	29.08%		0.7579	0.345	0.0804	29.00%
trainbfg	0.7614	0.3755	-0.0031	30.22%		0.7809	0.3235	0.0228	27.90%
traincgb	0.6935	0.4318	0.0139	30.75%		0.6101	0.4596	0.0594	33.20%

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Number of Hidden Layer Neurons5	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8596	0.2366	-0.0395	19.35%		0.7185	0.3165	-0.1664	17.94%
traingd	0.3634	0.6095	0.0122	46.22%		0.3972	0.5695	-0.02	35.05%
trainscg	0.3824	0.6321	0.0051	51.07%		0.4504	0.5747	0.0076	39.26%
traingdx	0.6456	0.4699	-0.0063	37.57%		0.5875	0.4895	-0.0722	31.71%
trainbfg	0.448	0.5794	0.0561	44.82%		0.4636	0.5602	-0.0357	34.64%
traincgb	0.5657	0.5096	-0.0443	38.24%		0.5655	0.5073	-0.1253	30.17%

Number of Hidden Layer Neurons6	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9008	0.2	0.0254	17.22%		0.84	0.2676	0.0369	26.60%
traingd	0.3242	0.5989	0.019	42.26%		0.372	0.5877	-0.0363	42.84%
trainscg	0.4359	0.6199	-0.1361	44.61%		0.5471	0.552	-0.1197	40.24%
traingdx	0.186	0.6681	0.1137	48.09%		0.2701	0.6519	0.1215	52.15%
trainbfg	0.6221	0.4765	-0.0702	32.98%		0.6578	0.4672	-0.1497	33.62%
traincgb	0.5823	0.476	-0.006	33.68%		0.6627	0.4329	-0.1132	33.21%

Number of Hidden Layer Neurons7	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.7605	0.3863	0.0054	29.33%		0.3832	0.5308	-0.0374	40.52%
traingd	0.0272	0.7612	0.0471	53.11%		0.172	0.705	0.1306	59.61%
trainscg	0.6939	0.4475	-0.0361	31.75%		0.5275	0.5213	-0.0058	41.49%
traingdx	0.5773	0.486	-0.0163	32.20%		0.5145	0.4643	0.0257	39.75%
trainbfg	0.5317	0.5343	0.0092	40.02%		0.4538	0.5313	0.095	47.15%
traincgb	0.4842	0.5869	-0.0461	42.13%		0.4471	0.5531	-0.0387	41.60%

Number of Hidden Layer Neurons8	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8526	0.2359	-0.0092	20.63%		0.6092	0.4298	-0.0705	37.06%
traingd	0.4064	0.5675	0.0226	39.98%		0.4458	0.5355	0.0681	44.16%
trainscg	0.5992	0.4767	0.0232	35.63%		0.6516	0.4546	0.023	39.39%
traingdx	0.1397	0.7602	-0.0236	53.41%		0.2304	0.7515	-0.044	57.85%
trainbfg	0.6055	0.4927	-0.0188	35.25%		0.6836	0.4373	0.0127	37.21%
traincgb	0.6384	0.4533	0.0047	32.45%		0.6846	0.407	-0.0591	33.81%

Number of Hidden Layer Neurons9	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8621	0.2449	-0.0667	19.79%		0.7538	0.3408	-0.074	21.13%
traingd	0.4371	0.5764	-0.0057	44.78%		0.4455	0.6082	-0.2097	35.74%
trainscg	0.5713	0.5056	-0.0338	37.82%		0.5935	0.503	-0.2018	29.87%
traingdx	0.3774	0.6236	-0.0059	49.65%		0.5249	0.5831	-0.0966	38.66%
trainbfg	0.6903	0.4153	0.0106	31.94%		0.6848	0.4437	-0.1167	27.62%
traincgb	0.5957	0.5056	-0.0032	39.18%		0.6171	0.5198	-0.2286	31.21%

Number of Hidden Layer Neurons10	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.923	0.2014	0.0134	15.42%		0.6911	0.3119	0.02	22.36%
traingd	0.5334	0.5294	-0.0092	42.52%		0.5466	0.4848	-0.0207	33.89%
trainscg	0.6234	0.4562	0.0056	36.04%		0.627	0.473	0.0004	31.50%
traingdx	0.6549	0.4471	0.0698	35.37%		0.6656	0.4385	0.0638	29.48%
trainbfg	0.5287	0.5128	0.0225	39.71%		0.5758	0.4778	0.0066	31.29%
traincgb	0.6232	0.4786	0.0081	35.75%		0.6185	0.4793	0.0197	30.82%

Number of Hidden Layer Neurons11	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8411	0.2924	0.0881	23.51%		0.7856	0.3475	0.1653	28.58%
traingd	0.2698	0.6611	0.0082	50.61%		0.2105	0.6496	-0.1199	42.96%
trainscg	0.4048	0.5999	-0.0286	47.45%		0.5098	0.5616	-0.0897	38.77%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.5659	0.5086	-0.0325	37.12%		0.6471	0.4544	-0.0762	30.11%
traincgb	0.652	0.4568	-0.0157	34.68%		0.7315	0.4039	-0.007	28.00%

Number of Hidden Layer Neurons12	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.7749	0.3467	-0.1627	22.56%		0.6039	0.455	-0.1652	34.05%
traingd	0.4179	0.5531	0.0041	39.66%		0.3395	0.6366	0.0464	53.75%
trainscg	0.6105	0.4684	-0.0448	31.87%		0.5777	0.5062	-0.0494	39.28%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.4586	0.5489	0.0292	40.94%		0.3175	0.6241	0.0454	51.78%
traincgb	0.658	0.4392	0.0145	32.53%		0.6126	0.4754	-0.0108	37.95%

Number of Hidden Layer Neurons13	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.922	0.1985	-0.0011	16.41%		0.5641	0.3709	0.0779	33.95%
traingd	0.4842	0.5882	0.0673	44.16%		0.2975	0.5394	0.1503	42.21%
trainscg	0.7008	0.4385	-0.0208	31.31%		0.4295	0.4808	0.0727	38.73%
traingdx	0.6114	0.4966	-0.0552	34.39%		0.2483	0.5198	0.0873	41.27%
trainbfg	0.7142	0.4228	0.0025	31.45%		0.4233	0.4786	0.1547	39.26%
traincgb	0.6605	0.4721	0.035	36.04%		0.3089	0.5263	0.2034	42.52%

Number of Hidden Layer Neurons14	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8795	0.2205	-0.0155	19.64%		0.7252	0.3078	0.0173	27.23%
traingd	0.3707	0.6255	0.0487	44.74%		0.2993	0.6533	0.0451	47.02%
trainscg	0.5684	0.4934	0.0524	37.67%		0.6147	0.4386	0.0034	31.23%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.5158	0.5585	-0.0912	39.38%		0.5445	0.4964	-0.1662	32.79%
traincgb	0.5433	0.526	0.0051	40.66%		0.5569	0.5033	-0.018	37.03%

Number of Hidden Layer Neurons15	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8472	0.2532	-0.0236	19.77%		0.7459	0.3502	0.0275	29.34%
traingd	0.5035	0.5434	0.0266	41.84%		0.5507	0.5029	0.0241	42.49%
trainscg	0.6525	0.4515	-0.032	31.63%		0.5975	0.4731	0.0106	37.74%
traingdx	0.6566	0.4729	-0.0788	32.35%		0.5902	0.4842	-0.0619	36.70%
trainbfg	0.6835	0.4258	0.0018	30.46%		0.6395	0.4476	-0.0119	34.15%
traincgb	0.551	0.5258	-0.0139	38.17%		0.567	0.505	-0.048	39.91%

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Number of Hidden Layer Neurons5	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8565	0.2761	-0.0292	19.23%		0.7763	0.38	-0.0401	22.51%
traingd	0.4521	0.558	0.0059	39.82%		0.5256	0.531	0.049	36.43%
trainscg	0.8284	0.3173	0.0155	21.69%		0.7334	0.3995	-0.1038	23.98%
traingdx	0.8576	0.2722	-0.0057	18.41%		0.7913	0.3443	0.0166	20.80%
trainbfg	0.7843	0.3479	0.0549	25.38%		0.7549	0.4067	-0.0259	26.44%
traincgb	0.8303	0.3147	-0.0165	21.72%		0.7516	0.3954	-0.0428	24.91%

Number of Hidden Layer Neurons6	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8402	0.2499	0.0898	18.54%		0.7118	0.4336	0.0958	36.92%
traingd	0.4683	0.5385	0.009	38.08%		0.3387	0.6704	0.1049	58.35%
trainscg	0.7623	0.3654	0.0036	23.92%		0.6209	0.4746	-0.0986	32.19%
traingdx	0.4711	0.525	0.0304	35.96%		0.354	0.615	-0.0022	49.25%
trainbfg	0.8268	0.2866	0.0013	20.16%		0.7404	0.4275	-0.0289	31.39%
traincgb	0.8287	0.3046	0.0029	21.01%		0.7579	0.3971	-0.0537	28.91%

Number of Hidden Layer Neurons7	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8216	0.2573	0.0498	16.44%		0.6432	0.4828	0.0226	32.80%
traingd	0.2417	0.6449	0.0377	41.85%		0.0791	0.7984	0.0384	53.01%
trainscg	0.8712	0.2607	-0.0183	16.93%		0.8119	0.3079	-0.0155	20.95%
traingdx	0.8119	0.3079	-0.0155	20.95%		0.6695	0.4129	-0.017	28.61%
trainbfg	0.6493	0.445	0.0046	29.17%		0.5562	0.5111	0.0196	33.40%
traincgb	0.8781	0.2597	0.034	17.39%		0.7209	0.4065	-0.0328	26.61%

Number of Hidden Layer Neurons8	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8242	0.2795	0.1638	20.37%		0.4978	0.5045	0.2513	34.40%
traingd	0.2157	0.68	0.0276	50.12%		0.031	0.6887	0.1152	52.48%
trainscg	0.8207	0.3001	-0.0242	20.86%		0.727	0.3955	0.0066	29.75%
traingdx	0.87	0.2588	0.0338	19.47%		0.614	0.4624	0.0106	33.56%
trainbfg	0.7532	0.3911	-0.072	25.83%		0.6191	0.4685	-0.0334	34.28%
traincgb	0.8806	0.2523	0.0186	17.63%		0.7573	0.3364	0.0603	25.43%

Number of Hidden Layer Neurons9	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8222	0.2919	-0.0528	17.42%		0.7361	0.4395	-0.0152	31.03%
traingd	0.4896	0.5182	-0.0211	35.00%		0.5007	0.5973	0.1228	48.67%
trainscg	0.8343	0.2808	0.0052	18.47%		0.7492	0.424	-0.0422	33.09%
traingdx	0.8595	0.244	0.0046	17.16%		0.7509	0.4046	-0.0051	32.23%
trainbfg	0.8338	0.2936	0.0059	19.98%		0.7768	0.4081	0.0958	31.28%
traincgb	0.6751	0.4184	0.0012	28.89%		0.6143	0.5458	0.0671	45.60%

Number of Hidden Layer Neurons10	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.7875	0.3097	0.0254	20.88%		0.5556	0.5135	0.0481	32.50%
traingd	0.334	0.6485	0.0463	44.63%		0.1438	0.6722	-0.0983	40.87%
trainscg	0.6052	0.4698	0.0652	34.03%		0.4907	0.5267	-0.0137	31.41%
traingdx	0.7962	0.3271	-0.0608	24.35%		0.5097	0.5137	-0.159	27.83%
trainbfg	0.6798	0.4349	0.0315	29.95%		0.577	0.4936	-0.0029	29.71%
traincgb	0.8555	0.2558	-0.0089	18.04%		0.7148	0.3966	-0.0965	23.77%

Number of Hidden Layer Neurons11	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.6992	0.4241	0.1241	29.56%		0.6389	0.442	0.1065	29.71%
traingd	0.558	0.4934	-0.025	32.56%		0.6124	0.4697	-0.0842	27.85%
trainscg	0.8193	0.305	-0.002	21.17%		0.7617	0.389	-0.0688	26.21%
traingdx	0.8534	0.2649	0.04	19.75%		0.7126	0.4528	-0.0387	28.95%
trainbfg	0.8192	0.2875	0.0229	22.04%		0.7753	0.3642	-0.0353	22.78%
traincgb	0.7449	0.3903	-0.0494	26.27%		0.6366	0.4664	-0.1855	27.58%

Number of Hidden Layer Neurons12	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.5904	0.5219	0.0436	37.10%		0.4316	0.5002	0.1491	39.75%
traingd	0.3531	0.6653	0.0165	41.59%		0.104	0.6708	0.1615	49.24%
trainscg	0.8629	0.2761	0.0328	19.57%		0.7244	0.3634	0.04	24.14%
traingdx	0.8565	0.2944	-0.0495	20.82%		0.545	0.4699	-0.0207	38.00%
trainbfg	0.8617	0.2775	0.0602	22.40%		0.6553	0.3852	0.089	28.76%
traincgb	0.8463	0.3032	0.0032	21.25%		0.5988	0.4412	-0.0751	30.35%

Number of Hidden Layer Neurons13	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8487	0.2724	0.038	19.54%		0.5369	0.5017	0.1008	36.53%
traingd	0.3349	0.6224	-0.0681	40.00%		0.1686	0.6732	-0.0392	46.35%
trainscg	0.7243	0.3858	0.0026	27.77%		0.544	0.4894	0.0132	36.72%
traingdx	0.8294	0.3016	0.0196	20.61%		0.7317	0.3964	0.0156	30.97%
trainbfg	0.7698	0.3644	0.0663	24.24%		0.6533	0.4448	0.1035	35.93%
traincgb	0.853	0.2899	0.0127	19.67%		0.7708	0.363	0.0191	28.26%

Number of Hidden Layer Neurons14	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8453	0.274	0.1306	19.61%		0.5889	0.4455	0.2484	30.79%
traingd	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainscg	0.7851	0.3467	0.0049	24.52%		0.6459	0.435	-0.054	28.25%
traingdx	0.8294	0.2948	-0.0345	22.39%		0.5455	0.5317	-0.043	36.32%
trainbfg	0.7088	0.415	0.0146	27.79%		0.5025	0.4694	0.034	29.21%
traincgb	0.6162	0.4745	0.0166	30.36%		0.4847	0.5614	0.0196	37.86%

Number of Hidden Layer Neurons15	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8916	0.1861	0.0216	13.58%		0.4931	0.5512	-0.0281	34.86%
traingd	0.5778	0.5114	-0.0314	33.46%		0.2666	0.6673	-0.0059	42.42%
trainscg	0.6528	0.4418	0.0369	32.12%		0.5895	0.4643	0.1126	34.61%
traingdx	0.8656	0.2728	0.0097	19.81%		0.5393	0.5142	0.0119	31.84%
trainbfg	0.8806	0.2632	-0.0355	18.66%		0.5932	0.5026	-0.0029	30.00%
traincgb	0.7933	0.3553	0.0574	24.97%		0.5747	0.5015	0.1637	32.80%

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Number of Hidden Layer Neurons5	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9009	0.1977	0.0256	12.42%		0.8115	0.2648	0.0415	14.84%
traingd	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainscg	0.8805	0.2026	0.0003	10.79%		0.7981	0.2515	-0.023	11.62%
traingdx	0.88	0.2291	0.0106	13.48%		0.8283	0.2638	-0.0073	12.83%
trainbfg	0.8805	0.2	-0.0047	10.54%		0.7965	0.248	-0.0195	11.47%
traincgb	0.8302	0.2768	-0.0453	15.79%		0.7684	0.2923	-0.0506	14.45%

Number of Hidden Layer Neurons6	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.865	0.2311	-0.065	12.98%		0.8108	0.2619	-0.1007	13.95%
traingd	0.1759	0.7125	-0.0124	50.61%		0.2427	0.6795	0.0361	55.98%
trainscg	0.766	0.3028	0.021	16.94%		0.8295	0.2902	-0.0011	17.64%
traingdx	0.8555	0.2536	0.0191	14.70%		0.8492	0.25	0.0155	15.06%
trainbfg	0.8462	0.2495	-0.0663	15.09%		0.8	0.2947	-0.0847	20.11%
traincgb	0.8795	0.2213	-0.0308	11.75%		0.8537	0.2574	-0.0328	15.98%

Number of Hidden Layer Neurons7	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.912	0.1941	-0.0037	11.09%		0.8521	0.2376	0.012	15.39%
traingd	0.4139	0.5963	-0.0408	38.49%		0.5462	0.5491	-0.1013	40.41%
trainscg	0.88	0.2342	-0.0135	13.02%		0.7967	0.2868	-0.0015	16.39%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.6843	0.3967	-0.1275	24.87%		0.5625	0.486	-0.104	31.37%
traincgb	0.8667	0.255	-0.0169	15.80%		0.7988	0.2953	-0.0109	18.39%

Number of Hidden Layer Neurons8	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9183	0.1654	0.0055	9.84%		0.797	0.2643	-0.0938	14.84%
traingd	0.0458	0.7005	0.0146	47.85%		0.1858	0.7388	0.1091	68.84%
trainscg	0.8143	0.2891	0.0059	16.58%		0.7752	0.3046	-0.0855	19.36%
traingdx	0.7967	0.3025	-0.0119	17.35%		0.7854	0.3341	-0.0867	20.70%
trainbfg	0.8517	0.2404	0.0077	12.78%		0.8609	0.2516	-0.0708	16.71%
traincgb	0.7605	0.3402	0.0053	23.40%		0.7833	0.362	-0.066	29.20%

Number of Hidden Layer Neurons9	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8792	0.2141	0.0414	13.00%		0.8166	0.2718	-0.0115	14.68%
traingd	0.2866	0.6174	-0.0802	44.20%		0.1046	0.7189	-0.2379	47.14%
trainscg	0.7576	0.3378	-0.0472	20.45%		0.7158	0.377	-0.1398	23.20%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.8662	0.2446	-0.0275	14.25%		0.8235	0.283	-0.0738	14.88%
traincgb	0.8542	0.2243	0.0101	13.16%		0.8189	0.2551	-0.0554	13.16%

Number of Hidden Layer Neurons10	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
traingd	0.2023	0.6618	-0.0754	41.04%		0.2273	0.6949	-0.1142	47.77%
trainscg	0.7191	0.368	-0.1307	23.03%		0.5832	0.46	-0.2158	26.43%
traingdx	0.8937	0.218	0.0078	13.21%		0.7156	0.3646	-0.052	25.59%
trainbfg	0.9159	0.194	-0.0035	11.01%		0.8204	0.2768	-0.1029	14.51%
traincgb	0.8593	0.2563	0.0244	14.02%		0.8133	0.2996	-0.0124	19.55%

Number of Hidden Layer Neurons11	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.7718	0.3227	-0.0833	19.57%		0.7761	0.3405	-0.0663	22.23%
traingd	0.4631	0.5403	0.0186	37.95%		0.4157	0.5574	0.0208	38.57%
trainscg	0.8323	0.2755	0.0061	16.98%		0.8396	0.2813	0.0313	21.37%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.8387	0.2501	0.0013	12.90%		0.8684	0.2406	-0.0161	14.25%
traincgb	0.8777	0.2344	0.0085	13.35%		0.8608	0.2621	0.0497	18.16%

Number of Hidden Layer Neurons12	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8975	0.2165	0.0669	13.18%		0.7691	0.2349	0.0495	14.73%
traingd	0.5035	0.5167	0.0324	31.22%		0.3688	0.559	0.0201	42.85%
trainscg	0.7271	0.383	-0.088	24.36%		0.6609	0.4034	-0.0817	29.15%
traingdx	0.8371	0.2741	0.0294	15.84%		0.6972	0.2887	0.0553	17.47%
trainbfg	0.7661	0.3621	-0.0648	24.27%		0.7404	0.32	0.0312	24.10%
traincgb	0.8538	0.2729	-0.0211	17.47%		0.7124	0.2864	-0.0103	22.36%

Number of Hidden Layer Neurons13	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9204	0.1607	0.0406	11.65%		0.7514	0.2875	-0.0089	15.34%
traingd	0.3443	0.5779	-0.0844	38.66%		0.3718	0.6105	-0.0892	37.63%
trainscg	0.6945	0.4058	-0.0454	28.93%		0.7213	0.3867	-0.0668	22.10%
traingdx	0.8599	0.2614	0.0115	15.67%		0.7701	0.329	-0.0035	17.85%
trainbfg	0.8288	0.2723	-0.0067	16.16%		0.8411	0.251	-0.0525	13.17%
traincgb	0.8638	0.2548	0.0055	17.02%		0.8168	0.2872	0.0195	16.20%

Number of Hidden Layer Neurons14	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.895	0.1727	0.0179	9.76%		0.854	0.267	0.0072	15.57%
traingd	0.5644	0.4558	-0.0068	29.63%		0.6441	0.4842	-0.0025	33.53%
trainscg	0.8485	0.2327	0.0122	13.25%		0.8794	0.2528	0.0215	17.55%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.7796	0.3152	-0.0436	19.74%		0.7143	0.3811	-0.0573	22.84%
traincgb	0.8572	0.2337	-0.0272	12.57%		0.848	0.2987	-0.0288	18.60%

Number of Hidden Layer Neurons15	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9149	0.2038	0.0849	14.13%		0.7564	0.2939	0.1628	17.56%
traingd	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainscg	0.754	0.3704	0.0366	24.44%		0.7458	0.3403	0.1167	22.80%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.77	0.3435	0.0134	22.26%		0.6998	0.3678	0.084	22.83%
traincgb	0.7448	0.3743	-0.039	26.86%		0.6881	0.3771	0.0578	21.64%

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Number of Hidden Layer Neurons5	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.948	0.0979	-0.0218	5.42%		0.879	0.2359	-0.0258	13.90%
traingd	0.3367	0.5793	-0.0115	40.04%		0.066	0.7069	-0.0588	48.12%
trainscg	0.7899	0.3284	-0.0603	20.53%		0.7029	0.4074	-0.1026	24.21%
traingdx	0.4972	0.5188	0.0552	36.20%		0.4989	0.5547	-0.0057	36.70%
trainbfg	0.8985	0.2086	-0.0158	12.18%		0.8897	0.256	-0.0245	15.83%
traincgb	0.9141	0.1987	-0.0016	12.64%		0.8602	0.2863	0.0114	16.44%

Number of Hidden Layer Neurons6	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9682	0.075	0.0005	5.02%		0.8689	0.2314	-0.0091	12.56%
traingd	0.3256	0.6262	0.0263	42.33%		0.3007	0.6152	-0.0658	39.54%
trainscg	0.896	0.2277	0.0077	16.34%		0.7435	0.3609	-0.0241	20.42%
traingdx	0.927	0.1844	-0.0096	11.92%		0.7921	0.3317	0.0178	17.88%
trainbfg	0.9588	0.1242	-0.0166	8.81%		0.8047	0.2877	-0.1089	14.73%
traincgb	0.9569	0.1356	0.0139	8.82%		0.8211	0.3097	0.0193	16.57%

Number of Hidden Layer Neurons7	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9531	0.1027	0.0352	6.65%		0.833	0.2753	-0.0093	22.19%
traingd	0.4514	0.5637	-0.058	36.86%		0.192	0.6571	-0.0086	51.52%
trainscg	0.9252	0.188	0.0038	11.66%		0.8186	0.311	0.1012	23.54%
traingdx	0.8049	0.3519	-0.0348	22.23%		0.695	0.3865	-0.0698	26.46%
trainbfg	0.7859	0.3563	0.0133	22.49%		0.7053	0.3739	0.098	28.24%
traincgb	0.8185	0.3212	-0.0218	19.97%		0.7245	0.4016	0.0271	28.01%

Number of Hidden Layer Neurons8	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9477	0.1041	-0.0062	5.85%		0.6857	0.402	-0.0691	26.21%
traingd	0.4993	0.5195	-0.1124	34.83%		0.4304	0.5873	-0.102	41.87%
trainscg	0.822	0.3001	-0.0087	19.51%		0.667	0.3973	-0.0855	26.31%
traingdx	0.8821	0.2423	0.0137	15.45%		0.7314	0.3589	0.0165	21.04%
trainbfg	0.8984	0.2194	-0.0019	14.41%		0.8271	0.298	-0.0876	17.83%
traincgb	0.9113	0.1769	-0.0206	10.06%		0.7821	0.2925	-0.0662	20.50%

Number of Hidden Layer Neurons9	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9513	0.0785	0.0125	4.65%		0.8204	0.2946	-0.0377	17.13%
traingd	0.5466	0.5115	-0.0467	33.98%		0.2629	0.6455	-0.0773	39.04%
trainscg	0.9194	0.2073	0.0017	13.95%		0.7346	0.3554	-0.0709	19.67%
traingdx	0.9125	0.1895	-0.0008	12.59%		0.8039	0.328	-0.0782	18.92%
trainbfg	0.9033	0.2178	-0.0253	13.55%		0.7848	0.3364	-0.0671	19.15%
traincgb	0.9394	0.152	-0.0125	9.43%		0.788	0.3393	-0.1116	19.30%

Number of Hidden Layer Neurons10	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9198	0.1792	-0.091	11.29%		0.8253	0.2873	-0.151	16.60%
traingd	0.4566	0.5721	0.0977	34.20%		0.5359	0.5503	0.1374	39.85%
trainscg	0.7903	0.33	-0.0477	17.90%		0.7865	0.3396	0.0001	21.89%
traingdx	0.9094	0.1973	0.0151	12.38%		0.8235	0.2881	0.0439	20.41%
trainbfg	0.9465	0.1421	0.0053	9.37%		0.8432	0.2729	0.0388	16.22%
traincgb	0.9466	0.1563	-0.0102	10.01%		0.8696	0.2498	-0.0367	18.03%

Number of Hidden Layer Neurons11	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
traingd	0.4395	0.5518	-0.0732	32.52%		0.6042	0.4857	0.0956	35.81%
trainscg	0.9265	0.173	0.0039	12.01%		0.883	0.2333	-0.0602	18.39%
traingdx	0.8883	0.2102	0.0331	13.56%		0.8326	0.3237	0.0523	24.20%
trainbfg	0.9255	0.1698	-0.0298	9.68%		0.921	0.207	0.0246	14.26%
traincgb	0.9562	0.1351	-0.003	7.83%		0.8967	0.2173	0.0142	14.26%

Number of Hidden Layer Neurons12	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9515	0.1431	-0.0299	8.67%		0.8276	0.2884	-0.0282	15.76%
traingd	0.5966	0.4809	0.0248	33.09%		0.5346	0.5483	0.039	37.72%
trainscg	0.9401	0.1301	-0.0103	7.96%		0.8904	0.2265	0.0125	11.39%
traingdx	0.9236	0.1861	0.0176	13.65%		0.8264	0.3246	0.0673	23.99%
trainbfg	0.8852	0.2418	0.0119	15.21%		0.7908	0.3501	-0.0178	18.80%
traincgb	0.9653	0.1178	-0.009	8.32%		0.8666	0.2447	0.0183	14.44%

Number of Hidden Layer Neurons13	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9025	0.1815	0.0011	11.38%		0.8007	0.3616	-0.0252	24.13%
traingd	0.3748	0.5952	0.0766	41.51%		0.1059	0.7025	0.176	47.06%
trainscg	0.9152	0.2136	0.0216	14.34%		0.8515	0.2955	0.0633	17.64%
traingdx	0.8512	0.2542	-0.0292	16.84%		0.682	0.4667	0.0272	30.33%
trainbfg	0.9529	0.1408	-0.0065	9.06%		0.8413	0.2973	-0.039	16.94%
traincgb	0.8698	0.2323	-0.0248	14.07%		0.7731	0.3509	0.0287	21.63%

Number of Hidden Layer Neurons14	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8859	0.1679	0.0023	10.42%		0.8019	0.3289	0.017	22.63%
traingd	0.3721	0.59	-0.0342	39.57%		0.0461	0.7479	-0.1303	44.97%
trainscg	0.9392	0.1331	0.041	7.90%		0.7853	0.3426	0.0562	20.83%
traingdx	0.867	0.2328	0.0093	15.38%		0.7166	0.3929	0.0188	24.37%
trainbfg	0.6365	0.4618	0.1476	30.64%		0.4876	0.5764	0.2163	37.16%
traincgb	0.9524	0.161	-0.0084	11.40%		0.8029	0.3172	0.0262	17.13%

Number of Hidden Layer Neurons15	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9126	0.1327	-0.0451	9.12%		0.7561	0.3383	-0.1288	19.43%
traingd	0.543	0.5182	0.0366	35.65%		0.2382	0.6473	-0.1669	38.35%
trainscg	0.6999	0.3852	-0.0268	24.55%		0.4649	0.5364	-0.0708	29.77%
traingdx	0.8815	0.2173	-0.0351	12.58%		0.7717	0.3579	-0.0823	19.69%
trainbfg	0.7263	0.3902	0.0601	24.21%		0.5339	0.4631	-0.0423	24.93%
traincgb	0.92	0.2002	0.0263	13.70%		0.7828	0.3173	-0.0806	18.95%

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Number of Hidden Layer Neurons5	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8689	0.2504	0.0274	19.10%		0.821	0.2402	0.1149	19.95%
traingd	0.4878	0.5337	0.0288	36.20%		0.5022	0.4997	0.1529	37.79%
trainscg	0.8618	0.2335	0.0124	17.42%		0.8116	0.2209	0.114	19.08%
traingdx	0.8602	0.2462	0.0252	19.16%		0.7924	0.2454	0.1386	22.69%
trainbfg	0.8204	0.3014	-0.0163	19.73%		0.7522	0.3033	0.1376	22.79%
traincgb	0.8334	0.2888	-0.0014	20.27%		0.7776	0.268	0.1242	23.39%

Number of Hidden Layer Neurons6	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8023	0.2784	0.0619	20.74%		0.8504	0.3102	0.0856	22.31%
traingd	0.6318	0.4029	0.0026	29.92%		0.5545	0.5055	-0.2177	28.32%
trainscg	0.7855	0.2861	-0.0103	20.97%		0.8543	0.2981	-0.0013	18.48%
traingdx	0.2248	0.6414	0.0295	57.62%		0.0907	0.8092	-0.2871	50.38%
trainbfg	0.8045	0.2726	0.0142	22.35%		0.8903	0.2578	-0.0169	17.30%
traincgb	0.8347	0.2309	-0.0317	17.22%		0.8707	0.2719	-0.0201	16.49%

Number of Hidden Layer Neurons7	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.9073	0.1923	0.0332	14.54%		0.6166	0.3732	0.0272	23.70%
traingd	0.7543	0.3944	0.0182	29.33%		0.5393	0.4951	0.0389	32.16%
trainscg	0.8247	0.3047	-0.0014	22.62%		0.6027	0.3995	-0.0906	25.93%
traingdx	0.6542	0.3951	-0.0598	24.25%		0.5384	0.4341	-0.1092	26.30%
trainbfg	0.8957	0.2189	-0.0025	15.03%		0.7289	0.3121	-0.0372	19.95%
traincgb	0.8955	0.2253	0.0287	16.88%		0.7408	0.3034	-0.0531	22.31%

Number of Hidden Layer Neurons8	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8255	0.267	0.076	23.18%		0.851	0.295	0.0461	25.80%
traingd	0.4236	0.5458	0.0479	37.97%		0.5337	0.5458	-0.0263	37.67%
trainscg	0.8275	0.2668	0.0101	19.68%		0.8331	0.3117	-0.026	21.31%
traingdx	0.8208	0.2667	-0.015	18.67%		0.8251	0.3062	-0.0819	19.70%
trainbfg	0.7942	0.2738	0.0029	19.72%		0.8537	0.2815	-0.0297	18.39%
traincgb	0.8387	0.2529	-0.051	17.52%		0.8215	0.3083	-0.0811	20.43%

Number of Hidden Layer Neurons9	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8045	0.3105	-0.0129	22.23%		0.7277	0.3587	0.0493	26.81%
traingd	0.7583	0.335	-0.0152	22.25%		0.7038	0.3761	-0.0068	27.23%
trainscg	0.7937	0.3064	-0.0005	21.77%		0.792	0.3272	-0.0311	24.25%
traingdx	0.812	0.2931	-0.0198	19.40%		0.8317	0.2692	0.017	21.16%
trainbfg	0.7754	0.3045	-0.0285	20.51%		0.7745	0.3188	-0.0192	24.42%
traincgb	0.7739	0.3145	-0.0279	20.16%		0.7759	0.3043	-0.0175	22.67%

Number of Hidden Layer Neurons10	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.7605	0.337	0.1845	24.46%		0.7611	0.3402	0.1254	26.22%
traingd	0.3495	0.5957	-0.0332	40.38%		0.2627	0.6382	0.1017	51.54%
trainscg	0.8523	0.2462	-0.0189	16.89%		0.8284	0.2806	-0.0157	20.52%
traingdx	0.2141	0.6898	-0.0336	44.01%		0.3051	0.638	0.129	47.63%
trainbfg	0.7578	0.3507	0.0097	23.04%		0.7197	0.3601	-0.0985	22.99%
traincgb	0.8351	0.2851	0.0227	19.48%		0.8061	0.3038	0.0202	22.43%

Number of Hidden Layer Neurons11	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8477	0.2867	-0.0026	20.77%		0.8424	0.2771	0.0553	20.32%
traingd	0.5709	0.4799	-0.0052	32.14%		0.7404	0.3752	0.0886	27.08%
trainscg	0.8444	0.2684	-0.0025	19.54%		0.8523	0.2517	0.0123	19.81%
traingdx	0.837	0.2631	-0.0012	20.22%		0.8819	0.232	0.0218	17.04%
trainbfg	0.4964	0.5712	0.0438	41.40%		0.4317	0.5384	0.1257	40.08%
traincgb	0.8482	0.2401	-0.0015	18.27%		0.8996	0.2022	0.038	16.13%

Number of Hidden Layer Neurons12	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8491	0.2236	-0.0482	14.96%		0.7464	0.3808	-0.1206	25.53%
traingd	0.609	0.4211	-0.0228	32.15%		0.6563	0.4596	-0.0318	31.51%
trainscg	0.8335	0.2407	0.0127	17.18%		0.7857	0.3458	-0.0807	22.37%
traingdx	0.8492	0.2357	0.0054	17.29%		0.8334	0.2969	-0.0616	21.39%
trainbfg	0.8279	0.2544	0.0144	19.06%		0.7401	0.3998	-0.073	27.11%
traincgb	0.8482	0.2226	0.0048	17.16%		0.8176	0.3126	-0.0304	22.41%

Number of Hidden Layer Neurons13	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8945	0.2143	0.0143	17.27%		0.7742	0.3397	-0.0058	22.11%
traingd	0.4533	0.5507	-0.0107	36.87%		0.2323	0.6523	-0.0702	39.66%
trainscg	0.8139	0.3008	-0.0347	21.93%		0.697	0.3556	-0.1386	21.14%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.8637	0.2428	-0.0211	18.35%		0.7944	0.2884	-0.0635	18.02%
traincgb	0.8906	0.2092	0.01	15.59%		0.7963	0.2827	-0.0317	17.60%

Number of Hidden Layer Neurons14	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8833	0.219	-0.0766	15.55%		0.7802	0.3485	-0.0911	24.87%
traingd	0.6867	0.4101	0.0016	31.30%		0.5823	0.489	-0.0015	35.23%
trainscg	0.7139	0.3582	-0.0324	24.12%		0.6547	0.4588	-0.0618	32.51%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.7851	0.2971	0.0229	20.95%		0.7395	0.3763	0.0854	26.56%
traincgb	0.7766	0.3315	-0.0122	22.69%		0.6563	0.4292	-0.0306	28.47%

Number of Hidden Layer Neurons15	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8799	0.2323	0.0516	17.50%		0.7674	0.3413	0.0851	25.51%
traingd	0.5806	0.4781	-0.0042	32.22%		0.5741	0.4564	-0.0075	34.54%
trainscg	0.8164	0.3002	0.0137	20.28%		0.8274	0.317	0.0157	22.72%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.791	0.3071	-0.0167	20.96%		0.8338	0.2987	0.0101	19.81%
traincgb	0.861	0.2402	0.024	17.50%		0.8281	0.2968	0.0192	22.45%

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Number of Hidden Layer Neurons5	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8082	0.3499	0.0355	22.99%		0.6623	0.4172	-0.0325	22.87%
traingd	0.2308	0.7171	-0.0182	52.33%		0.2387	0.6515	-0.0958	38.39%
trainscg	0.5733	0.528	-0.0497	36.22%		0.2792	0.5952	-0.1216	32.85%
traingdx	0.6952	0.4398	-0.0183	29.11%		0.5395	0.5018	-0.1029	27.26%
trainbfg	0.7259	0.4256	0.0365	29.64%		0.5504	0.4902	-0.0171	28.00%
traincgb	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

Number of Hidden Layer Neurons6	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8001	0.3374	-0.0698	21.36%		0.6571	0.4218	-0.0858	23.27%
traingd	0.2549	0.6755	0.051	50.52%		0.2437	0.6517	0.046	46.02%
trainscg	0.5667	0.5317	0.0724	38.26%		0.4712	0.5558	0.0194	37.79%
traingdx	0.7934	0.3589	-0.0203	24.09%		0.6728	0.4206	-0.0664	24.18%
trainbfg	0.6491	0.477	0.032	33.49%		0.571	0.4884	-0.0415	30.62%
traincgb	0.8031	0.3363	-0.0374	20.50%		0.6808	0.4063	-0.0381	23.03%

Number of Hidden Layer Neurons7	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.703	0.386	-0.1153	23.10%		0.6434	0.4277	-0.1486	28.85%
traingd	0.3807	0.627	0.0616	42.49%		0.3558	0.6375	0.1338	49.82%
trainscg	0.379	0.5969	-0.2004	35.87%		0.3444	0.596	-0.2036	42.02%
traingdx	0.6198	0.4824	0.039	30.57%		0.67	0.4479	0.0626	33.85%
trainbfg	0.7371	0.4142	-0.0049	26.04%		0.718	0.4191	0.0253	29.99%
traincgb	0.7957	0.3533	-0.0037	21.81%		0.6815	0.4067	0.1123	27.56%

Number of Hidden Layer Neurons8	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.703	0.386	-0.1153	23.10%		0.6434	0.4277	-0.1486	28.85%
traingd	0.3807	0.627	0.0616	42.49%		0.3558	0.6375	0.1338	49.82%
trainscg	0.379	0.5969	-0.2004	35.87%		0.3444	0.596	-0.2036	42.02%
traingdx	0.6198	0.4824	0.039	30.57%		0.67	0.4479	0.0626	33.85%
trainbfg	0.7371	0.4142	-0.0049	26.04%		0.718	0.4191	0.0253	29.99%
traincgb	0.7957	0.3533	-0.0037	21.81%		0.6815	0.4067	0.1123	27.56%

Number of Hidden Layer Neurons9	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8435	0.2943	-0.0852	18.29%		0.5276	0.4446	-0.1477	28.14%
traingd	0.1275	0.7399	-0.1355	51.32%		0.0736	0.691	-0.2263	44.30%
trainscg	0.8165	0.3509	-0.0008	22.93%		0.5284	0.4802	-0.0306	27.27%
traingdx	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainbfg	0.5738	0.5432	0.0801	39.49%		0.5476	0.5025	0.0569	36.23%
traincgb	0.3421	0.6348	-0.1904	38.50%		0.2404	0.658	-0.1495	40.65%

Number of Hidden Layer Neurons10	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.775	0.3884	0.1569	26.01%		0.6358	0.4446	0.1556	30.25%
traingd	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainscg	0.6816	0.461	-0.0066	28.82%		0.6628	0.429	0.1226	30.21%
traingdx	0.7853	0.3746	0.0105	24.16%		0.5758	0.4629	0.0661	31.08%
trainbfg	0.6438	0.481	0.001	31.07%		0.3926	0.5703	0.1106	40.56%
traincgb	0.7993	0.3483	-0.0328	23.15%		0.6117	0.4203	0.0212	25.30%

Number of Hidden Layer Neurons11	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.7435	0.3497	-0.1305	21.62%		0.6553	0.455	-0.1856	24.01%
traingd	0.1768	0.6712	-0.0273	50.54%		0.1177	0.7208	-0.1014	47.83%
trainscg	0.6644	0.4429	0.0161	30.52%		0.553	0.5406	-0.0817	30.23%
traingdx	0.6454	0.4301	-0.0449	28.52%		0.6228	0.5032	-0.1191	30.75%
trainbfg	0.7788	0.349	-0.0197	22.62%		0.7188	0.4208	-0.0969	24.21%
traincgb	0.7349	0.3964	0.0027	27.99%		0.6267	0.5033	-0.0764	30.96%

Number of Hidden Layer Neurons12	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.7996	0.349	-0.032	21.68%		0.6954	0.4092	0.0728	29.02%
traingd	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainscg	0.4553	0.5602	0.0176	35.56%		0.3733	0.6603	0.1907	51.00%
traingdx	0.6856	0.4353	-0.0086	28.75%		0.7329	0.4012	0.07	28.68%
trainbfg	0.7677	0.3928	-0.005	24.07%		0.7309	0.3983	0.0411	29.51%
traincgb	0.7907	0.3694	-0.0177	23.81%		0.774	0.3804	0.077	30.20%

Number of Hidden Layer Neurons13	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.6359	0.4684	-0.205	28.83%		0.4465	0.4691	-0.1204	26.58%
traingd	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
trainscg	0.5175	0.5721	-0.1194	38.23%		0.2297	0.6458	0.0633	43.95%
traingdx	0.7972	0.349	-0.0548	21.05%		0.476	0.48	0.0738	27.70%
trainbfg	0.7175	0.4278	-0.0158	27.61%		0.5186	0.4539	0.1115	29.91%
traincgb	0.75	0.3764	-0.0992	21.97%		0.537	0.4412	0.0328	25.45%

Number of Hidden Layer Neurons14	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8201	0.3384	0.0707	22.26%		0.578	0.474	0.1711	30.08%
traingd	0.3125	0.6519	-0.0683	47.22%		0.0612	0.6795	0.1047	46.91%
trainscg	0.8175	0.3552	0.0051	24.66%		0.5609	0.4607	0.0499	29.54%
traingdx	0.7866	0.3918	-0.0054	28.16%		0.588	0.4323	0.0431	26.01%
trainbfg	0.8036	0.3689	0.0438	25.05%		0.5996	0.4501	0.1025	28.23%
traincgb	0.7818	0.397	0.0096	27.81%		0.5849	0.4371	0.0357	24.22%

Number of Hidden Layer Neurons15	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
trainlm	0.8088	0.3164	0.021	22.81%		0.4612	0.5738	-0.1345	30.02%
traingd	0.2874	0.6632	0.0254	47.09%		0.0404	0.7219	-0.021	41.46%
trainscg	0.6425	0.4458	0.0991	32.88%		0.4721	0.5883	0.0398	30.90%
traingdx	0.7561	0.3816	-0.0025	26.23%		0.4971	0.546	-0.1305	26.82%
trainbfg	0.6917	0.4173	-0.0355	29.83%		0.5833	0.4957	-0.1385	26.57%
traincgb	0.8449	0.2943	-0.0087	20.83%		0.6543	0.4757	-0.097	24.83%

SVM modeling data:

MSC Processing：

penalty parameter (c) 0.1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.1521	0.6855	-0.1176	51.25%		0.0967	0.7827	-0.2012	56.06%
Linear Kernel	0.636	0.2701	-0.105	18.94%		0.5646	0.378	-0.211	24.09%
Polynomial Kernel	0.6638	0.2549	-0.0789	17.99%		0.5908	0.3521	-0.1849	23.10%
Sigmoid Kernel	0.0292	0.7437	-0.1159	56.09%		0.0028	0.8357	-0.1955	60.58%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.3494	0.5921	-0.1412	43.37%		0.4714	0.5033	-0.0674	36.00%
Linear Kernel	0.5604	0.3407	-0.1349	24.62%		0.7854	0.2068	-0.0768	11.48%
Polynomial Kernel	0.5815	0.3197	-0.1202	23.35%		0.7887	0.2114	-0.0644	11.32%
Sigmoid Kernel	0.0811	0.7554	-0.1852	55.09%		0.1273	0.6781	-0.1196	49.19%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5515	0.3748	-0.1429	26.88%		0.7677	0.2217	-0.0675	13.48%
Linear Kernel	0.5567	0.3469	-0.1472	24.77%		0.7998	0.1883	-0.0738	10.20%
Polynomial Kernel	0.5784	0.3329	-0.1273	24.24%		0.8208	0.1763	-0.0447	9.54%
Sigmoid Kernel	0.3086	0.6443	-0.143	47.96%		0.4225	0.4897	-0.0795	34.50%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6288	0.2785	-0.1059	21.03%		0.6385	0.287	-0.1732	12.22%
Linear Kernel	0.6055	0.2994	-0.1045	23.37%		0.6281	0.3048	-0.1722	14.07%
Polynomial Kernel	0.6292	0.2834	-0.0807	22.64%		0.6493	0.2918	-0.156	13.31%
Sigmoid Kernel	0.5799	0.3583	-0.0979	27.58%		0.584	0.3774	-0.1361	21.67%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5604	0.4204	-0.1213	29.84%		0.4705	0.4181	-0.1173	28.53%
Linear Kernel	0.6604	0.2878	-0.108	19.94%		0.5284	0.301	-0.0729	20.32%
Polynomial Kernel	0.6811	0.2636	-0.0988	18.72%		0.575	0.2747	-0.0678	18.67%
Sigmoid Kernel	0.1819	0.6962	-0.16	51.84%		0.129	0.678	-0.2129	44.23%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5751	0.3499	-0.1555	24.77%		0.7209	0.1961	-0.1039	10.20%
Linear Kernel	0.582	0.3379	-0.1402	24.20%		0.7371	0.1849	-0.0898	9.25%
Polynomial Kernel	0.6208	0.3089	-0.1279	22.47%		0.7604	0.1637	-0.0626	8.87%
Sigmoid Kernel	0.4541	0.5329	-0.1346	39.20%		0.5593	0.3689	-0.0868	24.19%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5979	0.3096	-0.1173	22.62%		0.7332	0.2244	-0.0824	11.16%
Linear Kernel	0.5837	0.3157	-0.1191	23.34%		0.724	0.2378	-0.0874	11.87%
Polynomial Kernel	0.6165	0.2863	-0.1204	21.89%		0.7508	0.2003	-0.0906	10.38%
Sigmoid Kernel	0.5733	0.34	-0.1232	25.45%		0.7068	0.2512	-0.0809	14.26%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6236	0.2851	-0.1167	21.23%		0.6914	0.2236	-0.1131	10.20%
Linear Kernel	0.5963	0.3104	-0.1222	23.23%		0.6786	0.2565	-0.1247	12.34%
Polynomial Kernel	0.6301	0.2831	-0.1148	21.38%		0.705	0.2213	-0.1037	10.53%
Sigmoid Kernel	0.5846	0.3226	-0.1151	24.54%		0.6739	0.2662	-0.1115	13.39%

penalty parameter (c) 1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.594	0.3436	-0.1162	26.32%		0.5832	0.333	-0.1461	17.26%
Linear Kernel	0.6143	0.3022	-0.101	23.50%		0.6289	0.2689	-0.1585	11.42%
Polynomial Kernel	0.6581	0.2674	-0.1053	20.78%		0.663	0.2349	-0.1569	10.56%
Sigmoid Kernel	0.3377	0.607	-0.1354	46.06%		0.3092	0.5849	-0.1131	38.15%

penalty parameter (c) 1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6194	0.2965	-0.14	16.51%		0.6326	0.2783	-0.0591	27.72%
Linear Kernel	0.6151	0.2961	-0.1423	16.29%		0.6346	0.2785	-0.0564	27.77%
Polynomial Kernel	0.6587	0.2602	-0.1354	14.34%		0.6312	0.2514	-0.0529	26.24%
Sigmoid Kernel	0.5894	0.3374	-0.148	19.93%		0.6115	0.3195	-0.0769	29.38%

penalty parameter (c) 1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5901	0.2939	-0.1341	19.39%		0.7279	0.2441	-0.0524	17.77%
Linear Kernel	0.5628	0.3092	-0.1325	20.62%		0.7366	0.2527	-0.0285	18.72%
Polynomial Kernel	0.6134	0.2702	-0.1283	18.27%		0.7427	0.2285	-0.0498	17.28%
Sigmoid Kernel	0.5587	0.3167	-0.1448	21.20%		0.7261	0.257	-0.0545	18.91%

penalty parameter (c) 1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7283	0.2198	-0.0984	13.96%		0.472	0.3644	-0.1569	27.35%
Linear Kernel	0.7209	0.2426	-0.097	15.20%		0.4156	0.4018	-0.155	30.48%
Polynomial Kernel	0.7385	0.2142	-0.0946	13.97%		0.4722	0.3635	-0.1445	28.39%
Sigmoid Kernel	0.6889	0.2837	-0.0745	19.33%		0.3716	0.4395	-0.1473	34.68%

penalty parameter (c) 5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6307	0.2864	-0.1366	16.24%		0.6081	0.3058	-0.0401	28.82%
Linear Kernel	0.6338	0.2826	-0.1294	15.70%		0.5947	0.3091	-0.0289	29.97%
Polynomial Kernel	0.6658	0.2372	-0.1348	13.23%		0.6323	0.2743	-0.0722	27.52%
Sigmoid Kernel	0.605	0.317	-0.1372	19.03%		0.61	0.3289	-0.0402	30.74%

penalty parameter (c) 5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6382	0.2771	-0.108	18.84%		0.6152	0.3036	-0.1142	20.94%
Linear Kernel	0.6292	0.2854	-0.1154	19.14%		0.6008	0.307	-0.1118	21.54%
Polynomial Kernel	0.6595	0.2429	-0.1101	16.93%		0.6464	0.2719	-0.1129	17.82%
Sigmoid Kernel	0.6272	0.2884	-0.1238	19.40%		0.5995	0.316	-0.1127	22.39%

penalty parameter (c) 5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6357	0.2799	-0.1069	21.79%		0.6581	0.2526	-0.1221	12.24%
Linear Kernel	0.6135	0.2955	-0.0876	23.28%		0.6344	0.2826	-0.1084	12.92%
Polynomial Kernel	0.6765	0.2549	-0.0904	20.18%		0.6732	0.2459	-0.1058	12.23%
Sigmoid Kernel	0.6084	0.2961	-0.0941	23.37%		0.6314	0.2838	-0.1146	12.93%

penalty parameter (c) 5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7007	0.2366	-0.0984	16.58%		0.5408	0.288	-0.1493	19.16%
Linear Kernel	0.6724	0.2754	-0.0964	19.03%		0.4863	0.327	-0.1728	21.38%
Polynomial Kernel	0.7069	0.2328	-0.088	17.20%		0.5327	0.2962	-0.1386	20.38%
Sigmoid Kernel	0.0522	0.588	-0.3359	53.56%		0.2478	0.5266	-0.2801	39.30%

penalty parameter (c) 10 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5807	0.2943	-0.1014	22.05%		0.708	0.2795	-0.1669	14.13%
Linear Kernel	0.5754	0.2975	-0.1017	22.21%		0.7074	0.2811	-0.1707	14.27%
Polynomial Kernel	0.632	0.2508	-0.1029	19.04%		0.719	0.2442	-0.1715	11.86%
Sigmoid Kernel	0.5715	0.3024	-0.1145	22.64%		0.6924	0.2947	-0.1728	15.16%

penalty parameter (c) 10 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5857	0.2898	-0.1005	22.91%		0.7262	0.2551	-0.1534	10.83%
Linear Kernel	0.5619	0.3035	-0.1133	23.42%		0.7246	0.2644	-0.1518	11.20%
Polynomial Kernel	0.6207	0.2517	-0.0936	19.84%		0.706	0.2525	-0.1698	11.47%
Sigmoid Kernel	0.5618	0.3045	-0.124	23.28%		0.7188	0.272	-0.1557	12.03%

penalty parameter (c) 10 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6672	0.2502	-0.1034	18.21%		0.5937	0.3003	-0.1522	21.03%
Linear Kernel	0.6422	0.2751	-0.1021	19.09%		0.5646	0.3293	-0.1466	21.67%
Polynomial Kernel	0.6875	0.2332	-0.093	17.16%		0.6087	0.2893	-0.1303	19.61%
Sigmoid Kernel	0.6294	0.2787	-0.1045	19.54%		0.5552	0.3387	-0.1422	22.76%

penalty parameter (c) 10 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6891	0.2385	-0.0885	16.83%		0.5775	0.281	-0.1023	19.02%
Linear Kernel	0.6579	0.277	-0.0994	19.22%		0.5171	0.322	-0.1344	21.22%
Polynomial Kernel	0.7017	0.235	-0.0804	17.21%		0.5589	0.2936	-0.0852	21.01%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

Smooth Processing：

penalty parameter (c) 0.1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5132	0.5117	0.0361	42.91%		0.5422	0.5099	0.0817	47.48%
Linear Kernel	0.6899	0.2817	0.0455	28.84%		0.7673	0.2856	0.0587	35.47%
Polynomial Kernel	0.7614	0.1986	0.0276	20.51%		0.8656	0.199	0.0803	25.59%
Sigmoid Kernel	0.3157	0.6215	0.0244	51.27%		0.3407	0.6115	0.0928	57.59%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6117	0.4361	-0.0202	35.80%		0.7164	0.4102	0.0257	36.03%
Linear Kernel	0.6833	0.2897	0.0374	29.94%		0.7715	0.2827	0.0917	32.70%
Polynomial Kernel	0.7735	0.2026	0.0316	21.50%		0.8404	0.2138	0.0831	27.57%
Sigmoid Kernel	0.414	0.5626	0.0105	46.49%		0.542	0.5268	-0.0018	45.29%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.749	0.3199	0.0026	28.56%		0.7397	0.3676	-0.0235	27.78%
Linear Kernel	0.7037	0.2864	0.0435	31.33%		0.7746	0.3011	0.0491	28.90%
Polynomial Kernel	0.7852	0.187	0.0203	20.16%		0.8505	0.2279	0.0675	23.86%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 0.1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7973	0.298	-0.0148	25.42%		0.6839	0.3743	-0.1217	29.37%
Linear Kernel	0.7335	0.2993	0.073	31.83%		0.6767	0.2897	-0.0173	28.74%
Polynomial Kernel	0.8492	0.1913	0.0443	19.98%		0.6892	0.2535	-0.0537	26.83%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 0.5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6985	0.3688	0.0196	32.50%		0.6826	0.4155	-0.0362	34.02%
Linear Kernel	0.6961	0.257	0.0739	30.90%		0.7088	0.299	0.0265	31.43%
Polynomial Kernel	0.847	0.1662	0.019	15.48%		0.7714	0.2331	0.0285	23.44%
Sigmoid Kernel	0.5417	0.4826	0.0567	43.12%		0.5214	0.5509	-0.008	44.30%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7185	0.3197	0.0477	33.15%		0.8295	0.261	0.0186	18.64%
Linear Kernel	0.6632	0.3024	0.069	36.22%		0.8585	0.2092	0.0079	18.57%
Polynomial Kernel	0.802	0.1963	0.0084	18.41%		0.9174	0.1791	0.012	15.09%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 0.5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8073	0.223	0.0844	26.58%		0.6442	0.3292	-0.0131	29.04%
Linear Kernel	0.7526	0.2368	0.089	30.93%		0.5955	0.3367	-0.0142	32.79%
Polynomial Kernel	0.9221	0.1473	0.0484	17.16%		0.6325	0.2897	-0.0414	24.72%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 0.5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8906	0.1618	0.0501	18.61%		0.5326	0.3576	0.0743	40.04%
Linear Kernel	0.7989	0.2071	0.0576	25.46%		0.4457	0.3988	0.1073	50.08%
Polynomial Kernel	0.9219	0.1364	0.0452	15.53%		0.5505	0.3225	0.0653	36.16%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6976	0.3034	0.0263	30.09%		0.7714	0.3288	-0.0249	27.46%
Linear Kernel	0.6446	0.2653	0.0628	32.55%		0.7797	0.2702	0.0561	28.70%
Polynomial Kernel	0.8095	0.1601	-0.0082	13.89%		0.8864	0.228	0.04	21.76%
Sigmoid Kernel	0.6274	0.4209	-0.0172	36.45%		0.6437	0.4508	-0.1255	32.05%

penalty parameter (c) 1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7019	0.2717	0.0518	28.80%		0.8017	0.2463	0.0661	29.84%
Linear Kernel	0.6498	0.2788	0.0713	32.18%		0.7631	0.2389	0.0633	33.72%
Polynomial Kernel	0.8179	0.166	-0.0004	13.56%		0.892	0.2027	0.0405	21.74%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.743	0.2245	0.0315	21.82%		0.7672	0.2574	0.1278	38.70%
Linear Kernel	0.676	0.2537	0.0421	27.05%		0.6708	0.2904	0.15	45.82%
Polynomial Kernel	0.819	0.176	-0.005	14.34%		0.8169	0.2667	0.0804	36.02%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8647	0.184	0.0325	19.28%		0.7247	0.2413	-0.0113	22.66%
Linear Kernel	0.7107	0.2585	0.0885	31.68%		0.6315	0.2858	0.0457	35.17%
Polynomial Kernel	0.876	0.1657	0.0274	16.09%		0.7285	0.2425	-0.0173	19.81%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7392	0.2636	0.077	29.78%		0.6956	0.2623	-0.0107	27.86%
Linear Kernel	0.7115	0.2678	0.0882	32.13%		0.6647	0.2579	0.0035	30.29%
Polynomial Kernel	0.8842	0.1744	-0.0074	13.82%		0.7478	0.2409	-0.0622	19.23%
Sigmoid Kernel	0.6394	0.4087	-0.0266	35.94%		0.6137	0.4058	-0.1238	36.65%

penalty parameter (c) 5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7486	0.2427	0.0854	28.86%		0.727	0.2188	0.0317	25.30%
Linear Kernel	0.7005	0.2779	0.0867	33.42%		0.6985	0.2404	0.017	28.21%
Polynomial Kernel	0.8678	0.1774	-0.0155	14.90%		0.6706	0.2901	0.0149	24.74%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.809	0.1826	0.0603	20.16%		0.6759	0.2716	0.0966	35.35%
Linear Kernel	0.7407	0.2346	0.0647	27.03%		0.5467	0.3396	0.1455	46.73%
Polynomial Kernel	0.8005	0.3019	0.0725	21.88%		0.6342	0.3909	0.0617	34.81%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9216	0.1279	0.0498	14.05%		0.6256	0.3145	0.0356	31.63%
Linear Kernel	0.7694	0.2215	0.0803	27.56%		0.5511	0.3646	0.0191	41.52%
Polynomial Kernel	0.8072	0.296	-0.0477	23.95%		0.5927	0.403	-0.1695	27.86%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 10 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7027	0.253	0.046	29.08%		0.8074	0.2522	0.0913	28.88%
Linear Kernel	0.6841	0.2629	0.0499	30.74%		0.7794	0.2781	0.0769	32.31%
Polynomial Kernel	0.8724	0.1927	-0.0277	13.52%		0.8413	0.2848	0.1389	25.41%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 10 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7603	0.2023	0.0804	26.31%		0.7103	0.2592	0.028	26.52%
Linear Kernel	0.6954	0.2483	0.0761	32.27%		0.6718	0.2979	0.032	29.97%
Polynomial Kernel	0.8467	0.2036	-0.0632	15.07%		0.6959	0.346	-0.1449	26.53%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 10 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9065	0.1576	0.0684	19.77%		0.5202	0.2846	0.0158	25.38%
Linear Kernel	0.7835	0.2285	0.0856	30.60%		0.4694	0.3434	0.0671	35.92%
Polynomial Kernel	0.9521	0.1476	0.0307	12.82%		0.5621	0.3032	-0.0338	23.40%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 10 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8931	0.1476	0.0111	13.27%		0.7664	0.2466	-0.041	17.83%
Linear Kernel	0.6927	0.2766	0.09	35.06%		0.7068	0.2347	0.015	24.23%
Polynomial Kernel	0.763	0.3463	0.0555	23.39%		0.4701	0.4829	-0.0303	33.82%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

FD Processing：

penalty parameter (c) 0.1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.3614	0.5684	-0.0403	41.06%		0.3935	0.7004	-0.0547	56.53%
Linear Kernel	0.554	0.4721	0.0324	33.92%		0.6197	0.5293	0.0347	44.15%
Polynomial Kernel	0.6298	0.3986	0.0186	28.20%		0.6919	0.4596	0.052	39.37%
Sigmoid Kernel	0.1721	0.6501	-0.1302	45.79%		0.187	0.8206	-0.1273	65.21%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.4787	0.5187	0.0068	39.63%		0.4628	0.617	0.0806	47.17%
Linear Kernel	0.5666	0.4603	0.0804	35.91%		0.5454	0.555	0.1602	43.01%
Polynomial Kernel	0.6204	0.4005	0.1201	33.20%		0.6001	0.5066	0.178	40.87%
Sigmoid Kernel	0.3849	0.5787	-0.0291	44.21%		0.3678	0.6658	0.0287	51.15%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5023	0.5275	0.0387	39.27%		0.5974	0.4656	0.0531	38.18%
Linear Kernel	0.5352	0.5102	0.0735	38.17%		0.6527	0.435	0.0948	35.86%
Polynomial Kernel	0.651	0.4152	0.0687	31.69%		0.6772	0.4251	0.1592	35.09%
Sigmoid Kernel	0.4374	0.5723	0.0131	42.13%		0.4974	0.5248	0.0351	42.70%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5574	0.487	0.0834	36.95%		0.5824	0.4559	0.184	40.99%
Linear Kernel	0.5622	0.4822	0.1129	36.84%		0.5545	0.4733	0.2231	40.61%
Polynomial Kernel	0.6598	0.4066	0.0924	31.51%		0.6063	0.4409	0.1993	36.33%
Sigmoid Kernel	0.3851	0.5871	-0.0391	40.92%		0.4324	0.5307	0.013	40.98%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.4817	0.527	0.0441	40.75%		0.5453	0.5462	0.0898	42.95%
Linear Kernel	0.5564	0.4815	0.0867	37.71%		0.6609	0.4624	0.0637	35.17%
Polynomial Kernel	0.6809	0.3714	0.0248	29.18%		0.6781	0.4491	0.048	32.70%
Sigmoid Kernel	0.4022	0.5711	0.0139	44.32%		0.4325	0.6227	0.0768	49.75%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5318	0.5043	0.0444	38.74%		0.6158	0.4812	-0.0273	33.30%
Linear Kernel	0.5499	0.4825	0.1239	38.37%		0.6588	0.4433	0.0534	32.10%
Polynomial Kernel	0.6702	0.4013	0.0602	32.09%		0.7393	0.365	0.0052	27.38%
Sigmoid Kernel	0.4752	0.54	0.0121	40.93%		0.5449	0.522	-0.0693	35.63%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6168	0.4517	0.1175	33.89%		0.4177	0.5008	0.2164	45.95%
Linear Kernel	0.5818	0.4541	0.1844	34.68%		0.3243	0.5131	0.2908	47.40%
Polynomial Kernel	0.7041	0.3711	0.0597	27.69%		0.4634	0.4591	0.1061	39.76%
Sigmoid Kernel	0.5716	0.4956	0.0692	36.11%		0.3815	0.5496	0.2185	49.63%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6504	0.4022	0.0846	31.79%		0.5986	0.4414	0.0372	32.14%
Linear Kernel	0.5652	0.4685	0.1487	37.74%		0.5661	0.4713	0.0998	34.48%
Polynomial Kernel	0.7139	0.3636	0.0153	27.93%		0.607	0.4463	-0.0669	30.83%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.554	0.4812	0.0673	37.29%		0.5708	0.5236	0.0249	37.59%
Linear Kernel	0.5618	0.4448	0.1501	35.41%		0.5372	0.5276	0.1609	39.66%
Polynomial Kernel	0.7232	0.3347	0.0395	26.47%		0.5211	0.5137	0.0959	35.91%
Sigmoid Kernel	0.4763	0.5412	0.0109	40.88%		0.5017	0.5516	-0.0669	39.48%

penalty parameter (c) 1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5879	0.4686	0.0627	35.06%		0.5489	0.4978	0.1897	43.59%
Linear Kernel	0.5837	0.4633	0.1206	35.80%		0.5348	0.4856	0.2248	42.07%
Polynomial Kernel	0.6989	0.3601	0.0357	27.34%		0.5698	0.4609	0.1779	42.18%
Sigmoid Kernel	0.5214	0.5096	0.029	37.10%		0.5268	0.5292	0.1657	46.86%

penalty parameter (c) 1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5671	0.4426	0.1123	34.37%		0.5849	0.4985	0.1471	40.23%
Linear Kernel	0.5307	0.4518	0.1738	36.32%		0.5604	0.5076	0.2406	41.84%
Polynomial Kernel	0.6837	0.3682	0.0251	27.72%		0.6583	0.4337	0.1022	34.24%
Sigmoid Kernel	0.5567	0.4744	0.0647	35.89%		0.5527	0.5432	0.124	42.11%

penalty parameter (c) 1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6272	0.3936	0.0361	30.15%		0.6791	0.4503	0.0408	33.10%
Linear Kernel	0.5448	0.4559	0.1575	36.65%		0.6285	0.4931	0.1737	40.59%
Polynomial Kernel	0.6884	0.339	0.0202	26.87%		0.6094	0.4859	0.0771	34.85%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5548	0.4769	0.1067	39.40%		0.6269	0.4882	-0.0399	30.12%
Linear Kernel	0.5867	0.4561	0.0882	38.19%		0.625	0.4946	-0.0821	30.14%
Polynomial Kernel	0.7642	0.2975	0.0199	25.76%		0.5816	0.4932	-0.0924	28.30%
Sigmoid Kernel	0.5353	0.4958	0.0565	40.39%		0.5832	0.5216	-0.0846	31.49%

penalty parameter (c) 5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5459	0.4597	0.1213	35.69%		0.671	0.4526	0.1335	38.05%
Linear Kernel	0.5448	0.4629	0.1155	35.85%		0.6821	0.4579	0.1244	38.46%
Polynomial Kernel	0.7171	0.3316	0.0011	24.81%		0.7219	0.4143	-0.0308	32.56%
Sigmoid Kernel	0.5391	0.4817	0.0764	36.40%		0.6559	0.4755	0.1092	38.84%

penalty parameter (c) 5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6902	0.3735	0.0681	29.68%		0.4372	0.5315	0.2726	43.05%
Linear Kernel	0.6127	0.4249	0.1343	34.38%		0.4472	0.5433	0.2702	43.49%
Polynomial Kernel	0.7737	0.3028	0.0154	23.87%		0.4614	0.4977	0.2466	37.76%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6997	0.3469	0.0482	26.34%		0.6488	0.4379	0.0783	33.71%
Linear Kernel	0.5646	0.4384	0.1775	34.74%		0.5497	0.5134	0.1721	40.71%
Polynomial Kernel	0.7564	0.3045	0.055	24.83%		0.5974	0.4729	0.0669	35.98%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 10 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5488	0.4481	0.1324	36.36%		0.6078	0.505	0.193	40.33%
Linear Kernel	0.5438	0.4406	0.1406	36.04%		0.5973	0.5138	0.1916	40.90%
Polynomial Kernel	0.7765	0.276	0.0099	22.56%		0.5371	0.5499	0.1253	43.87%
Sigmoid Kernel	0.5488	0.4694	0.0835	37.30%		0.6199	0.5141	0.1185	39.10%

penalty parameter (c) 10 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6205	0.4544	0.1761	36.92%		0.3978	0.417	0.1897	32.45%
Linear Kernel	0.6219	0.4635	0.1746	37.15%		0.3269	0.4542	0.2125	35.42%
Polynomial Kernel	0.814	0.2971	0.0478	24.48%		0.0374	0.5065	0.0725	40.11%
Sigmoid Kernel	0.5822	0.486	0.1837	38.87%		0.3598	0.4332	0.2064	35.18%

penalty parameter (c) 10 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6894	0.3854	0.0434	27.83%		0.5418	0.4507	0.0968	39.17%
Linear Kernel	0.6252	0.4457	0.1271	33.65%		0.4695	0.4934	0.1403	44.03%
Polynomial Kernel	0.7974	0.296	0.0086	21.26%		0.591	0.4304	0.0213	37.21%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 10 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7635	0.3096	0.0118	23.89%		0.5313	0.4764	0.0995	35.78%
Linear Kernel	0.5692	0.4419	0.1959	36.46%		0.4532	0.5062	0.2242	39.07%
Polynomial Kernel	0.7756	0.3039	0.0194	24.58%		0.5741	0.4714	0.1266	35.29%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

SD Processing：

penalty parameter (c) 0.1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.4554	0.5524	-0.1036	37.21%		0.5215	0.4771	0.0616	41.96%
Linear Kernel	0.8031	0.3173	-0.0058	19.99%		0.7022	0.3388	0.1121	27.67%
Polynomial Kernel	0.9919	0.0897	-0.0016	6.14%		0.6812	0.3694	0.0575	25.93%
Sigmoid Kernel	0.2178	0.6949	-0.1178	49.39%		0.2749	0.6084	0.0868	56.04%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6186	0.4196	-0.0566	28.91%		0.5467	0.5119	-0.1369	32.19%
Linear Kernel	0.8099	0.2928	-0.0184	20.36%		0.7232	0.3883	-0.0806	24.29%
Polynomial Kernel	0.9919	0.0836	-0.0071	6.22%		0.7232	0.4352	-0.0049	27.33%
Sigmoid Kernel	0.4342	0.5275	-0.0843	38.37%		0.3705	0.6165	-0.2145	40.20%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6927	0.3722	-0.0243	24.83%		0.656	0.4081	-0.1583	23.71%
Linear Kernel	0.7797	0.3227	0.0126	22.06%		0.7712	0.3377	-0.0982	19.05%
Polynomial Kernel	0.9914	0.0874	-0.0028	6.16%		0.7743	0.3773	-0.0811	24.66%
Sigmoid Kernel	0.4299	0.5368	-0.1055	36.97%		0.4309	0.5638	-0.1807	38.43%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7894	0.2827	-0.0416	18.50%		0.595	0.45	-0.0483	31.22%
Linear Kernel	0.7992	0.3005	-0.023	19.48%		0.7114	0.3887	-0.0056	25.00%
Polynomial Kernel	0.9913	0.0891	-0.0143	6.48%		0.6417	0.4443	0.0945	27.42%
Sigmoid Kernel	0.1065	0.7227	-0.1369	53.25%		0.0692	0.7401	-0.2315	51.51%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6753	0.3897	-0.023	26.72%		0.6124	0.4519	-0.1165	26.04%
Linear Kernel	0.8277	0.2839	0.0342	22.41%		0.7951	0.3634	-0.0526	25.68%
Polynomial Kernel	0.9902	0.0941	0.0067	6.96%		0.6788	0.4514	-0.048	26.63%
Sigmoid Kernel	0.5389	0.4872	-0.0588	35.24%		0.466	0.5272	-0.1714	32.38%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7668	0.3156	-0.0321	19.73%		0.687	0.3921	-0.0349	26.89%
Linear Kernel	0.8386	0.2744	0.0523	20.98%		0.7688	0.3323	-0.0119	27.73%
Polynomial Kernel	0.9913	0.0891	-0.0111	6.26%		0.7054	0.4095	-0.0074	30.10%
Sigmoid Kernel	0.6522	0.4047	-0.0411	26.64%		0.5834	0.4713	-0.0208	33.28%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8859	0.2305	0.0108	17.05%		0.8071	0.2856	-0.04	17.70%
Linear Kernel	0.8452	0.2912	0.041	24.00%		0.8087	0.2792	-0.0478	22.58%
Polynomial Kernel	0.991	0.0943	-0.0011	6.96%		0.7522	0.3353	-0.0569	22.02%
Sigmoid Kernel	0.6362	0.4254	0.0031	28.44%		0.6816	0.3587	0.0154	22.94%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9781	0.1092	0.002	8.18%		0.7077	0.4152	-0.0896	25.39%
Linear Kernel	0.8357	0.2765	0.0203	21.90%		0.7929	0.374	-0.0854	26.00%
Polynomial Kernel	0.9906	0.0898	-0.0021	6.43%		0.691	0.4449	-0.1348	27.40%
Sigmoid Kernel	0.3062	0.6018	-0.1643	40.76%		0.2624	0.6398	-0.2365	42.58%

penalty parameter (c) 1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7283	0.3565	-0.0152	21.54%		0.6702	0.3852	0.0852	31.73%
Linear Kernel	0.8489	0.2601	0.0517	19.50%		0.7405	0.34	0.0598	36.71%
Polynomial Kernel	0.9916	0.0867	-0.0082	5.80%		0.6647	0.4164	-0.0104	33.29%
Sigmoid Kernel	0.576	0.4554	-0.0375	29.67%		0.5437	0.5034	0.1343	45.97%

penalty parameter (c) 1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8378	0.285	0.0188	19.47%		0.6769	0.3647	0.1346	26.42%
Linear Kernel	0.8517	0.2653	0.0454	23.49%		0.7196	0.3544	0.1488	28.25%
Polynomial Kernel	0.9898	0.1011	-0.0078	7.26%		0.644	0.3984	0.0329	25.73%
Sigmoid Kernel	0.712	0.3783	-0.0328	23.96%		0.6136	0.3908	0.0835	27.70%

penalty parameter (c) 1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9375	0.1602	0.0162	12.89%		0.803	0.3309	-0.0193	20.30%
Linear Kernel	0.8225	0.292	0.0295	24.03%		0.8283	0.3039	0.011	20.40%
Polynomial Kernel	0.9916	0.0874	0.0019	6.54%		0.7022	0.3996	-0.0281	24.75%
Sigmoid Kernel	0.6555	0.3979	-0.0146	25.56%		0.6435	0.4051	-0.1238	22.37%

penalty parameter (c) 1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.989	0.0873	0.0005	6.71%		0.7275	0.4571	-0.1383	27.98%
Linear Kernel	0.8246	0.2693	0.03	23.15%		0.8267	0.3556	0.0068	23.67%
Polynomial Kernel	0.9914	0.0838	-0.0011	6.23%		0.766	0.4358	-0.0763	26.53%
Sigmoid Kernel	0.3459	0.5548	-0.071	41.69%		0.2736	0.6902	-0.2985	37.34%

penalty parameter (c) 5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8283	0.2779	0.0097	20.77%		0.7548	0.3556	-0.0039	21.29%
Linear Kernel	0.8221	0.2781	0.0554	25.81%		0.8209	0.3059	0.0842	19.88%
Polynomial Kernel	0.9905	0.0928	-0.0113	6.75%		0.6952	0.4081	-0.025	21.74%
Sigmoid Kernel	0.7521	0.331	-0.0025	22.73%		0.6901	0.3913	-0.0261	22.52%

penalty parameter (c) 5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9103	0.1846	0.0377	15.83%		0.8468	0.3111	0.0249	22.92%
Linear Kernel	0.8215	0.2742	0.0829	23.68%		0.8183	0.3281	0.0385	29.37%
Polynomial Kernel	0.9925	0.0818	0.0003	5.74%		0.7157	0.3983	0.0359	25.34%
Sigmoid Kernel	0.7881	0.3098	0.0387	22.64%		0.8016	0.3428	-0.0253	23.49%

penalty parameter (c) 5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9894	0.0934	-0.0044	7.64%		0.7404	0.3932	-0.009	20.66%
Linear Kernel	0.815	0.2699	0.0658	26.92%		0.7896	0.3396	0.0256	18.92%
Polynomial Kernel	0.9913	0.0892	-0.0078	6.90%		0.6868	0.4184	0.0163	21.43%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9912	0.0958	-0.0012	6.96%		0.6338	0.3964	0.1003	29.58%
Linear Kernel	0.8485	0.2792	0.0512	23.57%		0.7398	0.3138	0.0391	26.68%
Polynomial Kernel	0.9914	0.0945	-0.0043	6.94%		0.605	0.4054	0.0468	26.92%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 10 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8657	0.242	0.0327	19.13%		0.7881	0.3353	-0.0197	24.74%
Linear Kernel	0.835	0.2704	0.0693	23.07%		0.7921	0.3206	0.0073	28.06%
Polynomial Kernel	0.9923	0.0838	-0.0067	6.01%		0.7482	0.3994	-0.0521	26.95%
Sigmoid Kernel	0.7919	0.3029	0.0156	21.15%		0.7589	0.3647	-0.0333	23.78%

penalty parameter (c) 10 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.937	0.1488	0.045	12.25%		0.8292	0.3182	0.0262	24.92%
Linear Kernel	0.8212	0.2777	0.0512	23.23%		0.8075	0.3228	-0.0182	27.58%
Polynomial Kernel	0.9925	0.0806	-0.006	5.69%		0.745	0.3853	-0.0337	26.27%
Sigmoid Kernel	0.8028	0.3081	0.017	21.75%		0.7834	0.3478	-0.0394	26.23%

penalty parameter (c) 10 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.99	0.0968	-0.0005	6.96%		0.786	0.3614	-0.0012	25.86%
Linear Kernel	0.8237	0.2844	0.0745	23.96%		0.8197	0.3013	0.1094	26.03%
Polynomial Kernel	0.9906	0.0938	-0.0054	6.69%		0.7548	0.3722	0.0148	26.02%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 10 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9901	0.0927	0.0001	6.50%		0.6889	0.4546	0.0356	34.32%
Linear Kernel	0.838	0.2563	0.0696	20.58%		0.7801	0.3595	0.1036	32.24%
Polynomial Kernel	0.9903	0.0904	-0.0082	6.30%		0.7055	0.4224	0.0247	30.98%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

MSC+FD Processing：

penalty parameter (c) 0.1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.2733	0.6511	-0.0816	46.91%		0.2713	0.6033	0.1695	58.56%
Linear Kernel	0.7656	0.3031	-0.1202	16.22%		0.8218	0.2478	-0.0445	19.07%
Polynomial Kernel	0.8656	0.2061	0.0052	10.43%		0.8511	0.1823	0.0453	12.26%
Sigmoid Kernel	0.086	0.7654	-0.057	56.84%		0.0325	0.7197	0.2314	71.59%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5215	0.4822	-0.1635	30.39%		0.5808	0.4105	-0.0625	27.91%
Linear Kernel	0.7607	0.3094	-0.1204	17.52%		0.8117	0.2515	-0.0444	15.40%
Polynomial Kernel	0.8889	0.1886	-0.0027	9.93%		0.8358	0.2093	0.0424	13.36%
Sigmoid Kernel	0.2238	0.6919	-0.0843	53.52%		0.2445	0.6054	0.0491	47.40%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7009	0.3169	-0.1306	17.35%		0.6739	0.3668	-0.1778	19.11%
Linear Kernel	0.7532	0.2918	-0.1104	16.72%		0.737	0.3264	-0.1454	17.01%
Polynomial Kernel	0.8968	0.1711	0.0088	10.03%		0.8237	0.2415	-0.0321	11.39%
Sigmoid Kernel	0.5077	0.4636	-0.1504	30.91%		0.4576	0.5291	-0.2123	30.95%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7948	0.274	-0.1053	14.18%		0.8376	0.2314	-0.0361	12.82%
Linear Kernel	0.7604	0.3134	-0.1138	18.02%		0.8129	0.252	-0.0438	14.93%
Polynomial Kernel	0.8777	0.1907	0.012	10.34%		0.8477	0.2188	0.0533	12.19%
Sigmoid Kernel	0.6164	0.4004	-0.1781	21.98%		0.6769	0.3338	-0.1143	18.39%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6416	0.3885	-0.1416	22.62%		0.6909	0.3349	-0.0819	19.93%
Linear Kernel	0.8256	0.2738	-0.0968	17.55%		0.7784	0.2848	-0.0724	21.82%
Polynomial Kernel	0.9288	0.1544	0.0145	8.83%		0.7798	0.244	0.0148	14.43%
Sigmoid Kernel	0.3326	0.6117	-0.0887	44.80%		0.399	0.5561	-0.03	43.68%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7285	0.3033	-0.1291	16.62%		0.7633	0.3157	-0.1328	17.72%
Linear Kernel	0.7997	0.2666	-0.1112	17.37%		0.8035	0.2983	-0.1352	19.69%
Polynomial Kernel	0.9092	0.1634	0.0117	9.27%		0.8328	0.237	0.0304	13.29%
Sigmoid Kernel	0.565	0.4244	-0.1314	26.17%		0.6193	0.4437	-0.1245	28.86%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8385	0.2399	-0.0669	14.04%		0.7674	0.3177	-0.0819	16.99%
Linear Kernel	0.8107	0.2651	-0.1054	17.03%		0.7662	0.3122	-0.1258	18.53%
Polynomial Kernel	0.9334	0.1541	0.0053	9.26%		0.8023	0.2836	0.0051	15.30%
Sigmoid Kernel	0.7435	0.2973	-0.1044	17.00%		0.6864	0.3574	-0.1436	18.11%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8773	0.2063	-0.0454	11.34%		0.8358	0.2515	-0.0302	12.02%
Linear Kernel	0.8141	0.2702	-0.0894	18.18%		0.7753	0.2995	-0.106	17.28%
Polynomial Kernel	0.9155	0.167	0.0058	9.85%		0.815	0.2598	0.03	13.37%
Sigmoid Kernel	0.7335	0.3208	-0.094	19.20%		0.6714	0.3538	-0.1149	18.97%

penalty parameter (c) 1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7382	0.3171	-0.124	17.39%		0.7168	0.3201	-0.0577	18.19%
Linear Kernel	0.8214	0.2762	-0.1001	18.21%		0.7883	0.284	-0.0434	20.10%
Polynomial Kernel	0.9196	0.1521	0.0395	8.80%		0.8287	0.2292	0.0432	12.46%
Sigmoid Kernel	0.5238	0.4778	-0.1567	31.09%		0.5198	0.4578	-0.1059	29.15%

penalty parameter (c) 1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7928	0.2939	-0.1094	16.18%		0.8072	0.2504	-0.0006	18.38%
Linear Kernel	0.8164	0.2905	-0.1008	18.83%		0.7949	0.2507	-0.0187	20.58%
Polynomial Kernel	0.9312	0.1541	0.0137	8.20%		0.7929	0.2334	0.0156	16.07%
Sigmoid Kernel	0.6849	0.3508	-0.1535	17.93%		0.7428	0.2902	0.001	21.22%

penalty parameter (c) 1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8568	0.2363	-0.0613	13.46%		0.8106	0.2694	-0.0119	17.83%
Linear Kernel	0.8294	0.2633	-0.0987	17.20%		0.7677	0.308	-0.0566	24.66%
Polynomial Kernel	0.9358	0.1435	0.0025	8.31%		0.7185	0.2806	0.0838	16.72%
Sigmoid Kernel	0.781	0.2878	-0.1334	16.46%		0.7623	0.2897	-0.0725	18.29%

penalty parameter (c) 1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9021	0.1707	-0.0118	9.60%		0.8351	0.2714	-0.0393	15.14%
Linear Kernel	0.8166	0.255	-0.0839	16.38%		0.7749	0.3224	-0.1631	21.79%
Polynomial Kernel	0.9306	0.1427	-0.0048	8.22%		0.8393	0.2719	-0.0038	15.35%
Sigmoid Kernel	0.7131	0.3335	-0.1141	21.40%		0.6433	0.4167	-0.2152	23.05%

penalty parameter (c) 5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7981	0.2806	-0.1026	15.06%		0.815	0.2593	-0.1222	23.22%
Linear Kernel	0.8089	0.279	-0.0914	16.42%		0.7915	0.2781	-0.1418	29.06%
Polynomial Kernel	0.9416	0.1354	0.0044	7.62%		0.8418	0.2554	-0.0117	21.90%
Sigmoid Kernel	0.7237	0.3148	-0.1421	15.81%		0.7804	0.2838	-0.0999	19.85%

penalty parameter (c) 5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8374	0.2557	-0.0811	16.33%		0.8095	0.2578	-0.062	13.93%
Linear Kernel	0.8111	0.2801	-0.1037	19.42%		0.8035	0.2671	-0.0852	16.37%
Polynomial Kernel	0.9592	0.1328	0.0041	8.27%		0.7771	0.2497	-0.0093	12.89%
Sigmoid Kernel	0.7859	0.2855	-0.1308	17.78%		0.7841	0.2762	-0.1152	15.05%

penalty parameter (c) 5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9019	0.1781	0.0015	10.12%		0.8119	0.2611	0.0332	15.01%
Linear Kernel	0.8306	0.259	-0.0921	17.29%		0.7617	0.3137	-0.0697	23.87%
Polynomial Kernel	0.9445	0.1256	0.0117	7.23%		0.7834	0.2653	0.0544	15.87%
Sigmoid Kernel	0.8094	0.2706	-0.1152	16.68%		0.7522	0.3171	-0.0808	23.08%

penalty parameter (c) 5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9275	0.1584	0.0056	9.33%		0.8506	0.1928	-0.0176	10.48%
Linear Kernel	0.8104	0.2826	-0.1016	19.82%		0.8079	0.2552	-0.1042	16.57%
Polynomial Kernel	0.9547	0.1381	0.0153	8.77%		0.8488	0.2067	-0.021	10.93%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 10 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.834	0.2579	-0.1006	17.43%		0.7534	0.2962	-0.1027	16.52%
Linear Kernel	0.835	0.2642	-0.0937	19.53%		0.7502	0.3024	-0.0848	17.56%
Polynomial Kernel	0.9627	0.1194	0.0248	7.62%		0.7993	0.2524	-0.0407	12.28%
Sigmoid Kernel	0.7914	0.2808	-0.1114	17.11%		0.7207	0.3087	-0.1279	16.45%

penalty parameter (c) 10 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8662	0.2296	-0.0504	14.66%		0.8205	0.2603	-0.0108	15.33%
Linear Kernel	0.8209	0.274	-0.1016	19.86%		0.785	0.2765	-0.0679	18.49%
Polynomial Kernel	0.9531	0.1194	0.003	7.39%		0.7118	0.3201	0.0084	17.46%
Sigmoid Kernel	0.8072	0.2759	-0.1284	18.35%		0.7846	0.2744	-0.0947	17.30%

penalty parameter (c) 10 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9041	0.2004	0.0017	11.23%		0.8344	0.1924	-0.0167	10.55%
Linear Kernel	0.8103	0.2918	-0.1169	19.28%		0.7963	0.242	-0.0828	16.22%
Polynomial Kernel	0.9628	0.1307	0.0181	8.04%		0.7998	0.223	0.0479	13.01%
Sigmoid Kernel	0.7765	0.3116	-0.1511	20.76%		0.7862	0.2532	-0.1042	16.95%

penalty parameter (c) 10 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9458	0.133	0.0084	7.99%		0.8544	0.2367	-0.0134	12.07%
Linear Kernel	0.81	0.2541	-0.108	17.81%		0.7819	0.3243	-0.1794	18.89%
Polynomial Kernel	0.9676	0.116	0.0064	7.53%		0.8491	0.2575	-0.043	12.66%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

MSC+SD Processing：

penalty parameter (c) 0.1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5172	0.4271	-0.162	27.18%		0.3436	0.5801	-0.3425	28.36%
Linear Kernel	0.9035	0.1768	-0.0445	10.84%		0.7894	0.3031	-0.1517	14.82%
Polynomial Kernel	0.9912	0.0832	0.0007	6.25%		0.8629	0.2531	-0.0776	13.16%
Sigmoid Kernel	0.2462	0.6134	-0.098	47.43%		0.1309	0.7523	-0.2808	44.86%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6164	0.3844	-0.1867	19.66%		0.6059	0.3493	-0.2049	18.15%
Linear Kernel	0.8641	0.2222	-0.0796	12.50%		0.8867	0.1979	-0.0822	10.89%
Polynomial Kernel	0.9924	0.0844	0.0109	6.46%		0.8832	0.2197	0.0018	15.58%
Sigmoid Kernel	0.4105	0.5239	-0.22	31.34%		0.4098	0.4419	-0.2516	25.83%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7559	0.2933	-0.1335	14.65%		0.7209	0.3112	-0.0629	18.50%
Linear Kernel	0.8757	0.2113	-0.0772	11.51%		0.8731	0.2077	-0.0233	12.58%
Polynomial Kernel	0.9916	0.0876	0.0221	6.49%		0.8885	0.2243	0.0883	13.29%
Sigmoid Kernel	0.4134	0.512	-0.2201	31.04%		0.4362	0.4604	-0.1847	28.25%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8095	0.2396	-0.1136	11.57%		0.7171	0.3372	0.0042	28.24%
Linear Kernel	0.8722	0.2058	-0.0846	10.27%		0.8885	0.2183	-0.0541	17.48%
Polynomial Kernel	0.9926	0.083	0.0106	5.65%		0.8668	0.2401	0.0107	20.59%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 0.5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6979	0.3154	-0.1461	14.73%		0.7186	0.3335	-0.1532	19.76%
Linear Kernel	0.9232	0.1594	-0.0461	10.21%		0.8982	0.1945	-0.0847	18.66%
Polynomial Kernel	0.9923	0.0825	0.0102	5.62%		0.8702	0.2288	-0.0113	17.16%
Sigmoid Kernel	0.493	0.4409	-0.1897	23.56%		0.5625	0.4431	-0.169	31.16%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8692	0.2092	-0.0758	11.02%		0.7458	0.3043	-0.1177	14.51%
Linear Kernel	0.9463	0.1506	-0.0184	11.86%		0.8641	0.2236	-0.0654	12.80%
Polynomial Kernel	0.9915	0.0861	0.0129	6.32%		0.8329	0.288	-0.029	16.16%
Sigmoid Kernel	0.6893	0.33	-0.1357	17.62%		0.5962	0.3935	-0.1794	18.64%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9538	0.1303	-0.0315	7.17%		0.892	0.2222	-0.0292	13.92%
Linear Kernel	0.9225	0.1629	-0.0399	10.27%		0.9118	0.1764	-0.0658	17.62%
Polynomial Kernel	0.9926	0.0822	0.0075	6.02%		0.8738	0.2457	-0.0526	19.68%
Sigmoid Kernel	0.6469	0.3461	-0.1762	17.01%		0.6848	0.33	-0.1636	15.85%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9911	0.0838	0.0175	6.13%		0.6836	0.384	-0.0687	25.22%
Linear Kernel	0.9119	0.1567	-0.0491	12.73%		0.9328	0.1809	-0.0217	10.84%
Polynomial Kernel	0.9928	0.0769	0.0139	5.85%		0.8981	0.2526	0.0128	16.61%
Sigmoid Kernel	0.1232	0.6682	-0.1327	50.57%		0.007	0.8104	-0.3577	49.63%

penalty parameter (c) 1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7798	0.2444	-0.0979	12.11%		0.7363	0.3574	-0.2282	16.52%
Linear Kernel	0.9271	0.1394	-0.0297	10.52%		0.91	0.2168	-0.0699	17.11%
Polynomial Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
Sigmoid Kernel	0.625	0.3422	-0.1458	18.63%		0.5649	0.4603	-0.3022	21.81%

penalty parameter (c) 1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9021	0.1803	-0.0696	9.72%		0.8872	0.2056	-0.0086	12.37%
Linear Kernel	0.9227	0.1615	-0.0512	12.83%		0.9198	0.1639	0.039	10.07%
Polynomial Kernel	0.9926	0.0837	0.0168	6.27%		0.8926	0.2125	0.1045	13.65%
Sigmoid Kernel	0.7203	0.2989	-0.1563	14.16%		0.7323	0.3148	-0.1344	15.69%

penalty parameter (c) 1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9859	0.0941	0.0062	6.29%		0.8959	0.2454	0.115	18.48%
Linear Kernel	0.914	0.1703	-0.051	12.34%		0.9367	0.1492	-0.0446	12.83%
Polynomial Kernel	0.9924	0.0832	0.0156	5.94%		0.9154	0.2224	0.1183	16.35%
Sigmoid Kernel	0.5773	0.4106	-0.1288	21.11%		0.6984	0.3568	-0.0947	20.43%

penalty parameter (c) 1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9919	0.0855	0.0217	5.96%		0.7951	0.3286	0.0583	24.95%
Linear Kernel	0.9424	0.1379	-0.0303	9.90%		0.8615	0.2286	-0.0448	21.07%
Polynomial Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
Sigmoid Kernel	0.2416	0.6113	-0.1436	41.42%		0.2769	0.655	0.0117	57.63%

penalty parameter (c) 5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9289	0.142	-0.0355	8.45%		0.8849	0.2407	-0.0738	14.04%
Linear Kernel	0.929	0.1402	-0.0309	10.90%		0.8884	0.2301	-0.0495	16.84%
Polynomial Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
Sigmoid Kernel	0.8325	0.2113	-0.0796	11.09%		0.7838	0.3089	-0.1615	14.68%

penalty parameter (c) 5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9836	0.0988	-0.0007	7.29%		0.849	0.2432	-0.0267	12.25%
Linear Kernel	0.9364	0.1542	-0.0325	12.73%		0.8645	0.2128	-0.0533	10.11%
Polynomial Kernel	0.9921	0.0846	0.009	6.54%		0.8247	0.2621	0.0061	12.80%
Sigmoid Kernel	0.884	0.1899	-0.0785	11.67%		0.7764	0.2837	-0.1245	13.08%

penalty parameter (c) 5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9926	0.081	0.014	5.72%		0.8819	0.2362	-0.002	15.72%
Linear Kernel	0.9251	0.1489	-0.0291	10.31%		0.9104	0.1946	-0.0414	16.19%
Polynomial Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9917	0.0801	0.0149	5.82%		0.7376	0.3932	-0.1485	22.56%
Linear Kernel	0.9229	0.1415	-0.0264	11.18%		0.9007	0.2117	-0.1214	16.09%
Polynomial Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
Sigmoid Kernel	0.4145	0.4699	-0.1405	29.02%		0.3574	0.5935	-0.2437	33.68%

penalty parameter (c) 10 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9431	0.145	-0.0308	9.10%		0.9531	0.1419	0.0325	9.23%
Linear Kernel	0.9179	0.1728	-0.0265	14.05%		0.9364	0.1665	0.0505	11.57%
Polynomial Kernel	0.9914	0.0899	0.0118	6.79%		0.926	0.1782	0.0562	11.24%
Sigmoid Kernel	0.8447	0.2204	-0.098	11.72%		0.8957	0.205	-0.0252	11.37%

penalty parameter (c) 10 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
Linear Kernel	0.918	0.1698	-0.0348	12.60%		0.9422	0.1399	-0.0153	13.99%
Polynomial Kernel	0.9932	0.0769	0.0187	5.45%		0.8792	0.1878	0.0453	15.00%
Sigmoid Kernel	0.8734	0.2103	-0.0758	13.80%		0.9265	0.1661	-0.0531	15.30%

penalty parameter (c) 10 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9514	0.0844	0.017	6.10%		0.8714	0.2602	0.0455	17.26%
Linear Kernel	0.9303	0.1496	-0.031	12.46%		0.9067	0.2059	-0.0095	14.30%
Polynomial Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 10 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9921	0.0845	0.0189	6.02%		0.7873	0.3332	0.0237	26.36%
Linear Kernel	0.9296	0.1512	-0.0309	11.36%		0.9022	0.2092	-0.0653	19.64%
Polynomial Kernel	0.9931	0.0758	0.0106	5.42%		0.8996	0.2359	0.0285	16.00%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

SMOOTH+FD Processing：

penalty parameter (c) 0.1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.479	0.5528	-0.1157	38.10%		0.6239	0.3641	-0.0491	24.71%
Linear Kernel	0.7772	0.2772	-0.0618	17.89%		0.8555	0.1793	-0.0236	12.35%
Polynomial Kernel	0.8692	0.2039	-0.0058	13.95%		0.8493	0.191	-0.0053	13.93%
Sigmoid Kernel	0.2055	0.724	-0.139	53.49%		0.2864	0.5459	-0.0548	40.54%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6274	0.3936	-0.1106	24.14%		0.619	0.4037	-0.1755	24.55%
Linear Kernel	0.7911	0.2486	-0.0555	15.83%		0.8018	0.2551	-0.0874	17.17%
Polynomial Kernel	0.863	0.1842	0.0174	13.36%		0.8602	0.2163	-0.0262	14.48%
Sigmoid Kernel	0.4183	0.5284	-0.2013	33.25%		0.4002	0.5525	-0.2707	34.16%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7103	0.309	-0.0782	19.50%		0.7534	0.3032	-0.1476	15.82%
Linear Kernel	0.7701	0.2591	-0.0392	17.38%		0.8331	0.2329	-0.0966	12.71%
Polynomial Kernel	0.8444	0.1917	0.012	14.43%		0.9003	0.1833	0.0208	11.97%
Sigmoid Kernel	0.5777	0.4129	-0.1158	26.23%		0.5787	0.4448	-0.2027	25.09%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8023	0.2257	-0.0526	13.93%		0.7161	0.344	-0.1162	19.21%
Linear Kernel	0.8035	0.2324	-0.0523	15.35%		0.7429	0.3187	-0.111	17.46%
Polynomial Kernel	0.873	0.1676	-0.008	11.57%		0.8365	0.2601	-0.0257	17.98%
Sigmoid Kernel	0.6332	0.3797	-0.1069	23.42%		0.4061	0.5629	-0.1936	30.72%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7028	0.3284	-0.085	20.41%		0.6734	0.3953	-0.0393	26.37%
Linear Kernel	0.8055	0.2339	-0.0363	15.66%		0.814	0.2558	-0.0104	17.38%
Polynomial Kernel	0.8962	0.1627	0.0076	11.69%		0.8416	0.2633	0.1038	20.67%
Sigmoid Kernel	0.5487	0.4462	-0.1276	28.69%		0.51	0.5201	-0.085	35.27%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7883	0.2553	-0.0656	15.72%		0.7258	0.3034	-0.099	18.35%
Linear Kernel	0.8289	0.2239	-0.0457	15.00%		0.7741	0.2673	-0.0543	18.91%
Polynomial Kernel	0.911	0.1616	0.0105	11.49%		0.8004	0.2384	0.0052	16.63%
Sigmoid Kernel	0.6779	0.3517	-0.1022	21.30%		0.5851	0.4188	-0.1608	25.27%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.832	0.2244	-0.0382	13.59%		0.8035	0.2219	0.0506	18.50%
Linear Kernel	0.8134	0.2449	-0.0514	15.48%		0.8041	0.2333	0.0564	19.46%
Polynomial Kernel	0.8937	0.172	-0.0003	11.71%		0.8255	0.2322	0.0679	18.17%
Sigmoid Kernel	0.7447	0.2932	-0.1028	16.82%		0.753	0.2905	0.0007	20.78%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8625	0.1994	-0.0241	12.77%		0.807	0.2296	0.005	18.24%
Linear Kernel	0.8219	0.2379	-0.0458	15.06%		0.7807	0.2364	0.0059	18.55%
Polynomial Kernel	0.9026	0.1679	0.0063	11.24%		0.8035	0.2214	0.0311	18.80%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7346	0.3004	-0.0891	17.44%		0.83	0.2407	-0.0589	17.24%
Linear Kernel	0.8081	0.2497	-0.0331	16.47%		0.8424	0.2163	-0.0093	18.77%
Polynomial Kernel	0.9079	0.162	0.0089	11.50%		0.7777	0.2928	0.042	21.44%
Sigmoid Kernel	0.5801	0.4231	-0.1274	25.14%		0.7211	0.3596	-0.0744	25.44%

penalty parameter (c) 1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7846	0.2441	-0.028	16.51%		0.854	0.2244	-0.1127	12.61%
Linear Kernel	0.7921	0.2424	-0.0306	17.34%		0.8617	0.2264	-0.1124	15.04%
Polynomial Kernel	0.8984	0.1678	0.0242	12.27%		0.8446	0.2584	-0.0327	18.97%
Sigmoid Kernel	0.7214	0.3058	-0.0566	19.23%		0.7778	0.2849	-0.1639	15.77%

penalty parameter (c) 1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8062	0.2091	-0.0062	14.46%		0.8794	0.2284	-0.0387	14.04%
Linear Kernel	0.7829	0.2317	-0.0189	16.48%		0.8615	0.2517	-0.0529	16.39%
Polynomial Kernel	0.8755	0.1675	0.02	12.62%		0.8872	0.2562	-0.0031	17.29%
Sigmoid Kernel	0.7244	0.2859	-0.0779	18.72%		0.7868	0.3195	-0.1181	18.47%

penalty parameter (c) 1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8617	0.1805	-0.0167	11.48%		0.8162	0.2426	0.0346	20.12%
Linear Kernel	0.8178	0.2286	-0.0405	14.22%		0.8057	0.2584	0.0244	22.93%
Polynomial Kernel	0.8923	0.1478	0.0171	10.24%		0.8006	0.2794	0.059	25.39%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7966	0.23	-0.0276	16.10%		0.8361	0.2502	-0.0821	15.18%
Linear Kernel	0.7956	0.234	-0.0196	16.71%		0.8479	0.2412	-0.077	15.49%
Polynomial Kernel	0.9248	0.1498	-0.0109	11.09%		0.747	0.3961	-0.0799	24.89%
Sigmoid Kernel	0.762	0.2619	-0.0484	17.39%		0.7855	0.2891	-0.1223	15.78%

penalty parameter (c) 5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8261	0.2229	-0.0378	14.14%		0.8545	0.1792	-0.0419	14.05%
Linear Kernel	0.8081	0.2533	-0.0364	16.51%		0.839	0.2028	-0.0184	17.96%
Polynomial Kernel	0.9315	0.1477	-0.0111	9.69%		0.7283	0.3257	-0.0102	22.81%
Sigmoid Kernel	0.7854	0.2613	-0.0658	15.94%		0.8259	0.2033	-0.0415	16.36%

penalty parameter (c) 5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8437	0.2091	-0.005	14.58%		0.889	0.1655	0.0271	11.66%
Linear Kernel	0.7987	0.2607	-0.0162	18.64%		0.8763	0.1887	0.0098	11.94%
Polynomial Kernel	0.9248	0.1567	0.0137	11.88%		0.7827	0.3092	0.0783	20.95%
Sigmoid Kernel	0.1648	0.6674	-0.2338	45.08%		0.0291	0.6326	-0.1169	46.68%

penalty parameter (c) 5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9203	0.1459	0.0028	10.14%		0.7506	0.289	0.011	21.09%
Linear Kernel	0.8383	0.2313	-0.0328	16.07%		0.7704	0.2519	-0.0056	19.72%
Polynomial Kernel	0.9515	0.131	-0.0085	9.00%		0.696	0.35	-0.0009	24.97%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 10 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8436	0.2181	-0.0403	14.40%		0.7829	0.2314	0.0526	18.38%
Linear Kernel	0.8366	0.2351	-0.0409	15.52%		0.7771	0.2576	0.0685	20.40%
Polynomial Kernel	0.9579	0.1259	0.0027	8.98%		0.6362	0.3639	0.201	29.73%
Sigmoid Kernel	0.8113	0.243	-0.0756	14.99%		0.7695	0.2391	0.0318	18.34%

penalty parameter (c) 10 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8378	0.2131	-0.0117	14.38%		0.8598	0.1981	0.0112	14.99%
Linear Kernel	0.8072	0.2518	-0.0339	17.19%		0.8519	0.206	-0.0007	16.23%
Polynomial Kernel	0.9513	0.1377	-0.0102	9.26%		0.6598	0.3772	0.0107	29.33%
Sigmoid Kernel	0.7915	0.2565	-0.0547	17.25%		0.8451	0.2054	-0.0125	15.54%

penalty parameter (c) 10 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8742	0.1855	0.0011	13.13%		0.7764	0.1973	0.0115	13.96%
Linear Kernel	0.831	0.2466	-0.0304	17.08%		0.7774	0.2287	0.0212	17.92%
Polynomial Kernel	0.9346	0.1431	0.0034	10.76%		0.6404	0.3194	0.0724	21.11%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 10 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9424	0.1374	0.0068	10.13%		0.7187	0.2901	-0.0092	18.16%
Linear Kernel	0.8373	0.23	-0.0304	17.18%		0.7653	0.2525	-0.0381	16.45%
Polynomial Kernel	0.9663	0.1182	0.0035	8.75%		0.6318	0.3552	-0.0094	22.53%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

SMOOTH+SD Processing：

penalty parameter (c) 0.1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.3095	0.6372	-0.1397	44.08%		0.3645	0.5577	-0.0156	44.40%
Linear Kernel	0.6455	0.4614	-0.0422	30.58%		0.57	0.4666	0.0452	33.58%
Polynomial Kernel	0.8662	0.2448	-0.0751	14.98%		0.6078	0.4248	-0.0402	28.78%
Sigmoid Kernel	0.1268	0.7423	-0.145	53.42%		0.1667	0.65	-0.0342	52.92%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.4503	0.5196	-0.1332	36.17%		0.3238	0.6325	-0.2701	34.56%
Linear Kernel	0.6288	0.4289	-0.0809	27.86%		0.5228	0.5588	-0.1914	31.48%
Polynomial Kernel	0.8256	0.2427	-0.1081	14.47%		0.7316	0.4276	-0.1417	24.57%
Sigmoid Kernel	0.3031	0.6047	-0.0872	46.69%		0.216	0.7011	-0.2267	41.96%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.5315	0.484	-0.1464	30.12%		0.5183	0.5098	-0.2028	31.37%
Linear Kernel	0.5874	0.4552	-0.134	27.55%		0.5134	0.5063	-0.2294	31.09%
Polynomial Kernel	0.8171	0.2575	-0.0829	16.20%		0.6869	0.4258	-0.1633	25.91%
Sigmoid Kernel	0.3621	0.5666	-0.1766	37.09%		0.3687	0.582	-0.2143	37.42%

penalty parameter (c) 0.1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6688	0.3909	-0.1017	24.70%		0.6451	0.4736	-0.0827	31.93%
Linear Kernel	0.6117	0.4441	-0.0829	28.24%		0.5767	0.5273	-0.0641	37.09%
Polynomial Kernel	0.833	0.2443	-0.0923	14.10%		0.7197	0.4347	-0.0607	27.74%
Sigmoid Kernel	0.4314	0.5411	-0.1457	34.55%		0.4305	0.5911	-0.0906	42.40%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.4187	0.525	-0.1406	33.87%		0.4962	0.5757	-0.183	38.40%
Linear Kernel	0.579	0.4549	-0.1172	28.03%		0.6755	0.4685	-0.2112	32.63%
Polynomial Kernel	0.9027	0.1944	-0.0507	12.07%		0.5497	0.5336	0.0476	35.94%
Sigmoid Kernel	0.2929	0.579	-0.1411	39.32%		0.3375	0.6861	-0.1756	49.48%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.603	0.4528	-0.0792	29.66%		0.5542	0.5408	-0.1153	33.93%
Linear Kernel	0.62	0.436	-0.0767	28.12%		0.6031	0.5262	-0.1194	34.15%
Polynomial Kernel	0.8548	0.2285	-0.0777	13.44%		0.7101	0.4428	-0.0845	31.28%
Sigmoid Kernel	0.4721	0.5268	-0.1042	36.19%		0.4067	0.5944	-0.108	38.94%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7471	0.3708	-0.13	22.68%		0.621	0.3986	-0.1544	21.31%
Linear Kernel	0.6491	0.4522	-0.0751	29.50%		0.526	0.4784	-0.0741	27.20%
Polynomial Kernel	0.9385	0.1786	-0.0236	12.22%		0.1699	0.5656	-0.0517	28.51%
Sigmoid Kernel	0.5456	0.5074	-0.1417	32.65%		0.4999	0.4807	-0.1445	26.95%

penalty parameter (c) 0.5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8035	0.3082	-0.1118	18.79%		0.7426	0.3151	-0.1416	20.81%
Linear Kernel	0.6301	0.4513	-0.065	29.22%		0.5951	0.455	-0.0349	33.43%
Polynomial Kernel	0.8979	0.2075	-0.0533	12.64%		0.5763	0.421	-0.0467	29.05%
Sigmoid Kernel	0.4279	0.6053	-0.0909	39.19%		0.4049	0.5619	-0.0679	42.11%

penalty parameter (c) 1 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.561	0.4779	-0.1037	30.92%		0.5274	0.5383	-0.0939	35.55%
Linear Kernel	0.6388	0.4275	-0.0654	27.83%		0.5745	0.5149	-0.0416	33.99%
Polynomial Kernel	0.8966	0.189	-0.0504	11.25%		0.663	0.4122	-0.1487	24.38%
Sigmoid Kernel	0.4115	0.5492	-0.1333	37.19%		0.4037	0.6009	-0.1412	39.99%

penalty parameter (c) 1 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.6372	0.4148	-0.1129	25.60%		0.5525	0.5064	-0.2644	28.95%
Linear Kernel	0.6171	0.428	-0.0849	27.60%		0.5418	0.5241	-0.2428	30.43%
Polynomial Kernel	0.9382	0.164	-0.0303	10.70%		0.3417	0.621	-0.0061	36.05%
Sigmoid Kernel	0.5284	0.4817	-0.1245	29.83%		0.4174	0.5874	-0.3046	34.05%

penalty parameter (c) 1 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7849	0.315	-0.1172	18.28%		0.6804	0.4088	-0.1613	25.80%
Linear Kernel	0.6518	0.4336	-0.052	28.34%		0.5871	0.5014	-0.093	34.27%
Polynomial Kernel	0.9199	0.1794	-0.0387	11.29%		0.5303	0.54	-0.0866	37.83%
Sigmoid Kernel	0.6039	0.4637	-0.0668	29.85%		0.5837	0.514	-0.0864	35.41%

penalty parameter (c) 1 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8151	0.2777	-0.1133	15.85%		0.764	0.3255	-0.0391	25.98%
Linear Kernel	0.6021	0.4737	-0.1076	28.14%		0.6808	0.4084	-0.0219	33.79%
Polynomial Kernel	0.9008	0.196	-0.0492	12.01%		0.6019	0.4279	0.0225	29.10%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 5 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.689	0.4243	-0.0544	28.99%		0.5469	0.4547	-0.0621	27.94%
Linear Kernel	0.6766	0.4377	-0.0356	31.24%		0.4938	0.4951	-0.0417	30.35%
Polynomial Kernel	0.9802	0.1178	0.0073	8.61%		0.0498	0.6638	-0.1167	39.97%
Sigmoid Kernel	0.613	0.482	-0.0701	32.60%		0.5186	0.4723	-0.0651	29.60%

penalty parameter (c) 5 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7589	0.3542	-0.1103	21.18%		0.6643	0.3802	-0.097	25.94%
Linear Kernel	0.6478	0.4458	-0.043	28.85%		0.5564	0.467	0.0091	35.16%
Polynomial Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
Sigmoid Kernel	0.64	0.4547	-0.0294	29.87%		0.5635	0.481	0.0572	37.36%

penalty parameter (c) 5 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8556	0.2604	-0.0842	15.87%		0.6354	0.4256	-0.132	24.16%
Linear Kernel	0.6463	0.4388	-0.0775	29.23%		0.5159	0.515	-0.1398	32.74%
Polynomial Kernel	0.9715	0.1197	-0.0114	8.31%		0.2954	0.5839	0.0329	33.72%
Sigmoid Kernel	0.3904	0.5966	-0.0529	42.45%		0.3823	0.5778	-0.1406	38.90%

penalty parameter (c) 5 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9239	0.1869	-0.0506	11.26%		0.6155	0.4166	0.0296	25.42%
Linear Kernel	0.6696	0.4414	-0.0385	29.81%		0.5332	0.4987	0.1824	34.94%
Polynomial Kernel	0.975	0.1247	-0.0026	8.35%		0.2382	0.6083	0.1038	39.19%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 10 Kernel function parameter (g) 0.01	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.688	0.3971	-0.1025	24.09%		0.6741	0.4462	-0.0623	33.71%
Linear Kernel	0.6362	0.4438	-0.0636	28.32%		0.6179	0.4905	-0.0158	36.52%
Polynomial Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid
Sigmoid Kernel	0.6108	0.4587	-0.049	29.92%		0.6475	0.4573	0.009	33.32%

penalty parameter (c) 10 Kernel function parameter (g) 0.03	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.7536	0.3171	-0.1329	19.09%		0.6764	0.4176	-0.2274	22.60%
Linear Kernel	0.6423	0.4363	-0.0884	29.35%		0.5246	0.5048	-0.2113	26.69%
Polynomial Kernel	0.9728	0.1167	-0.0063	8.07%		0.0871	0.6523	0.1305	40.47%
Sigmoid Kernel	0.6293	0.4437	-0.0612	31.21%		0.5358	0.5089	-0.1801	27.13%

penalty parameter (c) 10 Kernel function parameter (g) 0.1	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.8416	0.2615	-0.1015	15.50%		0.7281	0.3707	-0.0243	26.35%
Linear Kernel	0.6488	0.4344	-0.0378	27.53%		0.5994	0.507	0.0277	36.07%
Polynomial Kernel	0.982	0.1105	0.0038	7.71%		0.3478	0.5906	0.0304	37.14%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid

penalty parameter (c) 10 Kernel function parameter (g) 0.3	Training Set					Validation Set			
	R2	MAE	MBE	MAPE		R2	MAE	MBE	MAPE
RBF Kernel	0.9351	0.1542	-0.0313	9.79%		0.7012	0.4061	-0.0796	23.39%
Linear Kernel	0.645	0.4332	-0.0875	27.89%		0.5371	0.5105	-0.1389	29.98%
Polynomial Kernel	0.9665	0.1247	-0.0163	8.51%		0.3944	0.544	-0.1928	28.36%
Sigmoid Kernel	Invalid	Invalid	Invalid	Invalid		Invalid	Invalid	Invalid	Invalid