

Supplemental information

Predicting the compressive strength of a quaternary blend concrete using Bayesian regularized Neural Network

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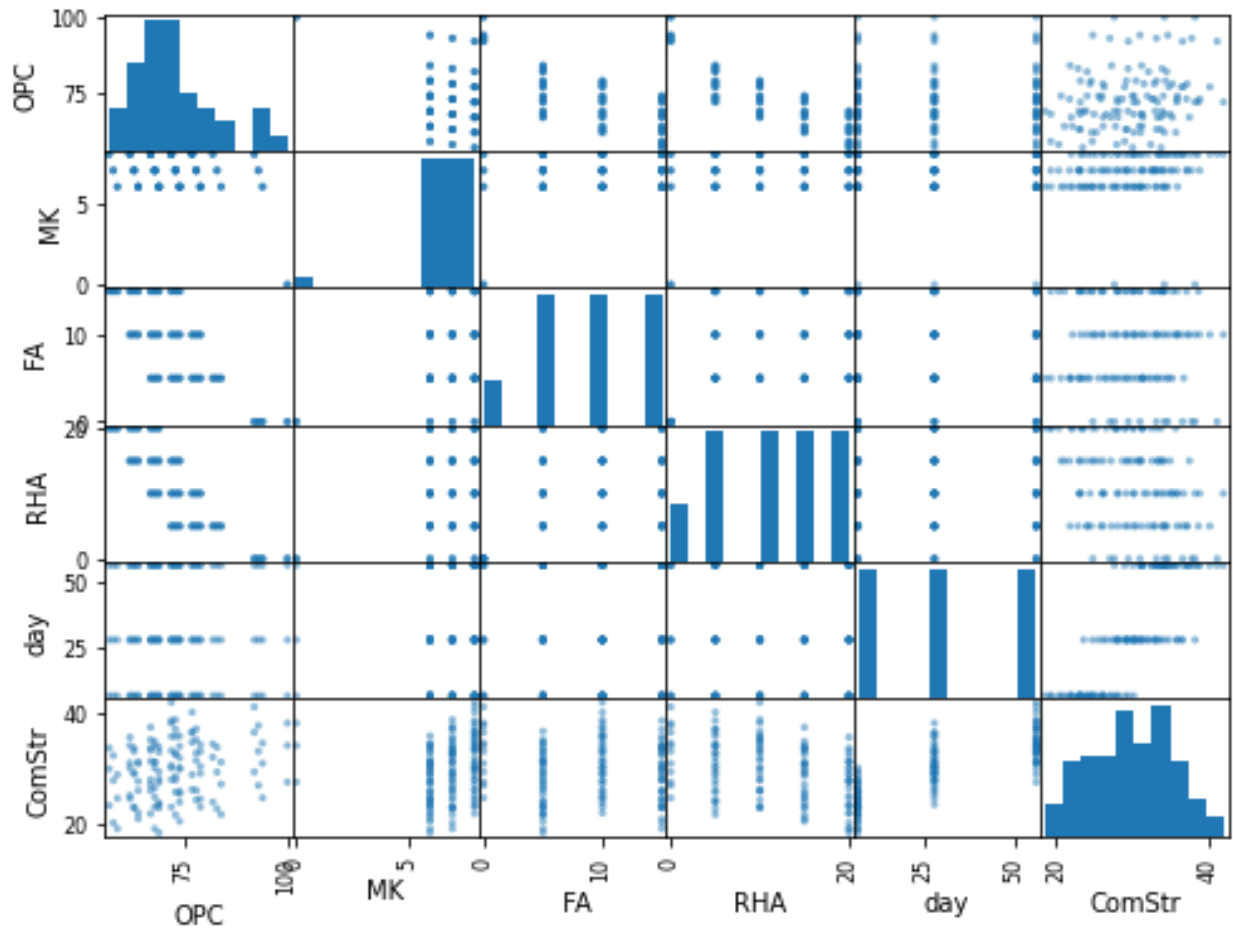


Fig. S1. Scatter matrix showing the distribution of the inputs and output as well as their relationship with each other

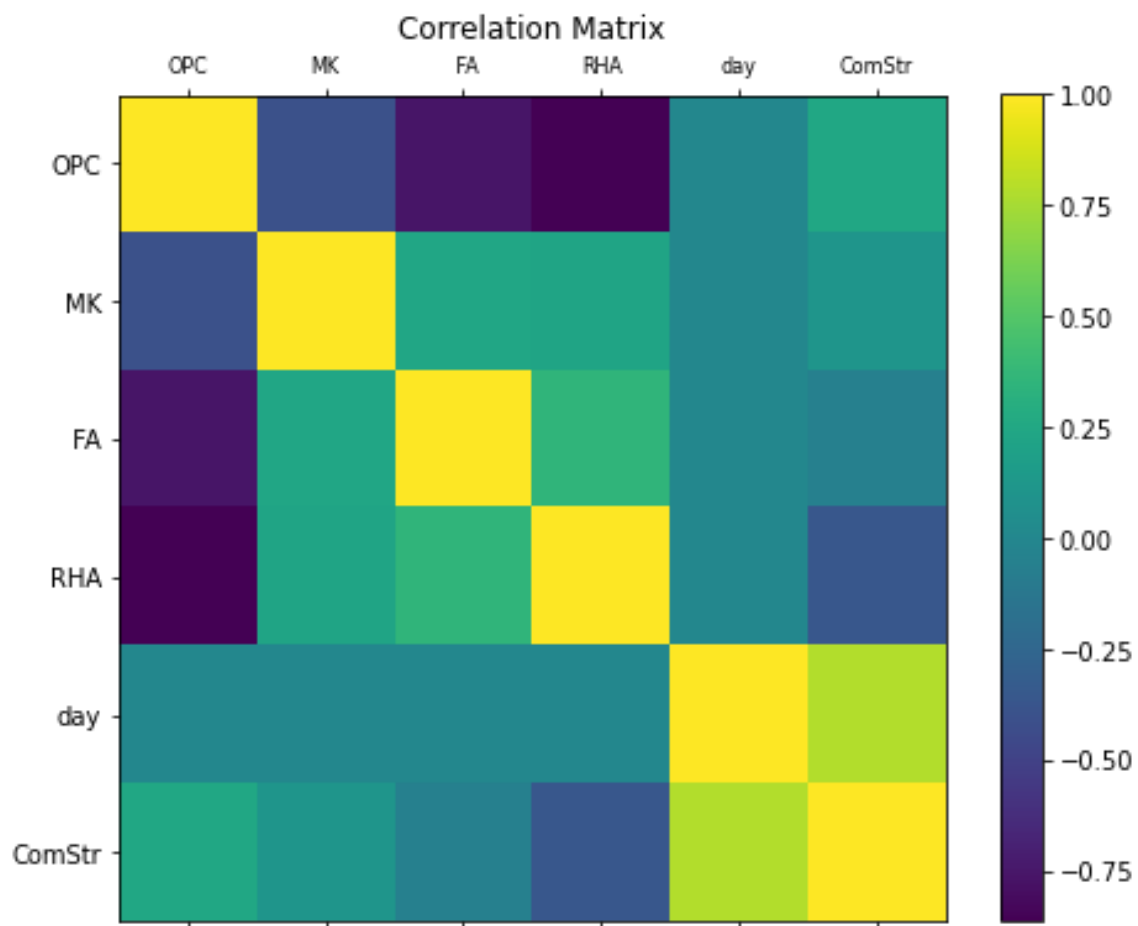


Fig. S2. Correlation matrix map for the relationship between inputs and output

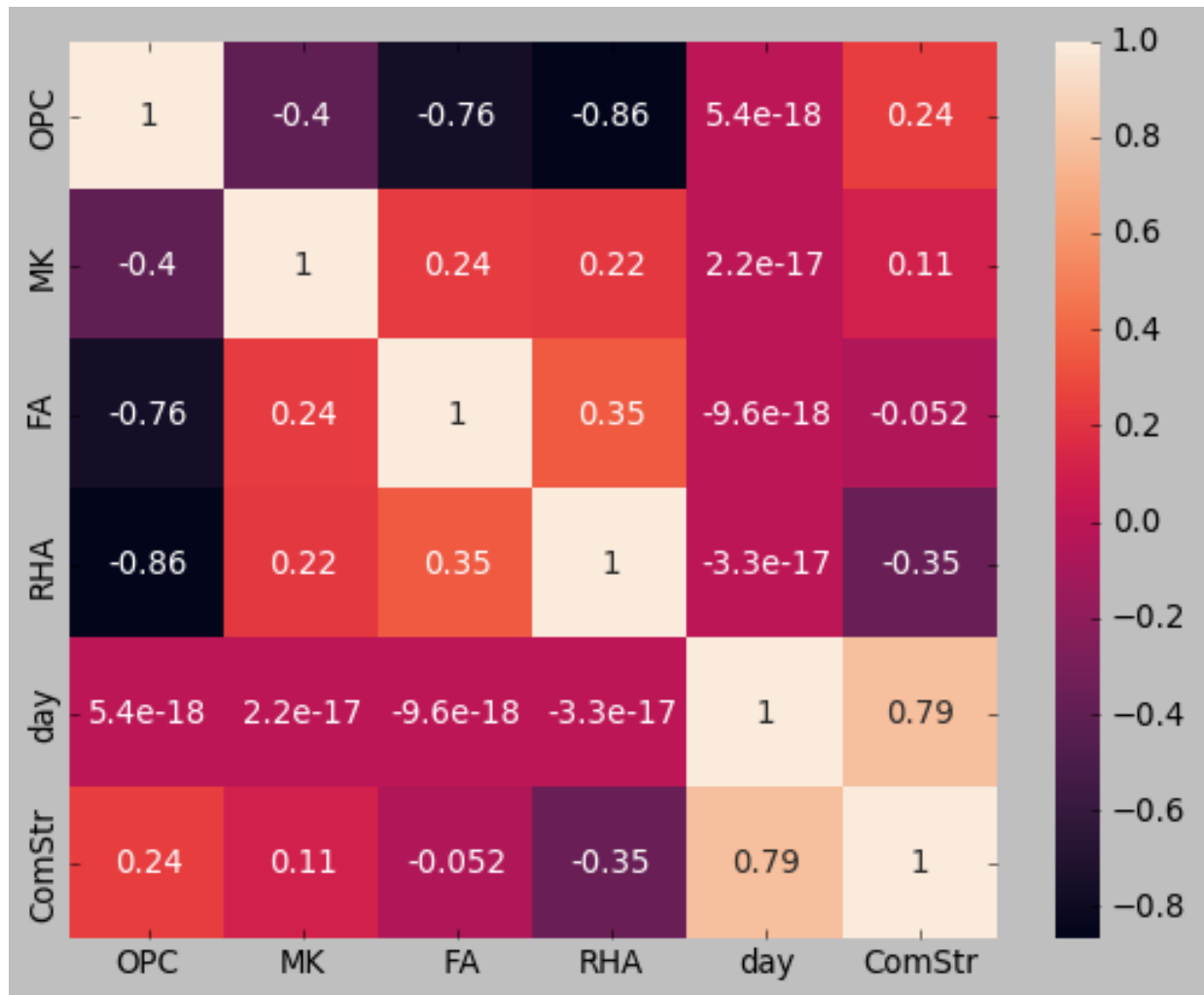


Fig. S3. Correlation matrix map for the relationship between inputs and output. The exact values are shown in the plots

Table S1. A summary of results from parametric (polynomial) regression models

Polynomial Power	R ²		RMSE		MSE	
	Training	Testing	Training	Testing	Training	Testing
1	0.76	0.84	2.429	2.501	5.900	6.255
2	0.95	0.96	1.502	1.777	2.256	3.158
3	0.94	0.92	1.707	2.482	2.913	6.160

The performances of parametric regression require improvement.