

**Project Development Phase  
Model Performance Test**

Date	18 November 2022
Team ID	PNT2022TMID18550
Project Name	Project – AI Powered Food Demand Forecaster
Maximum Marks	10 Marks

**Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

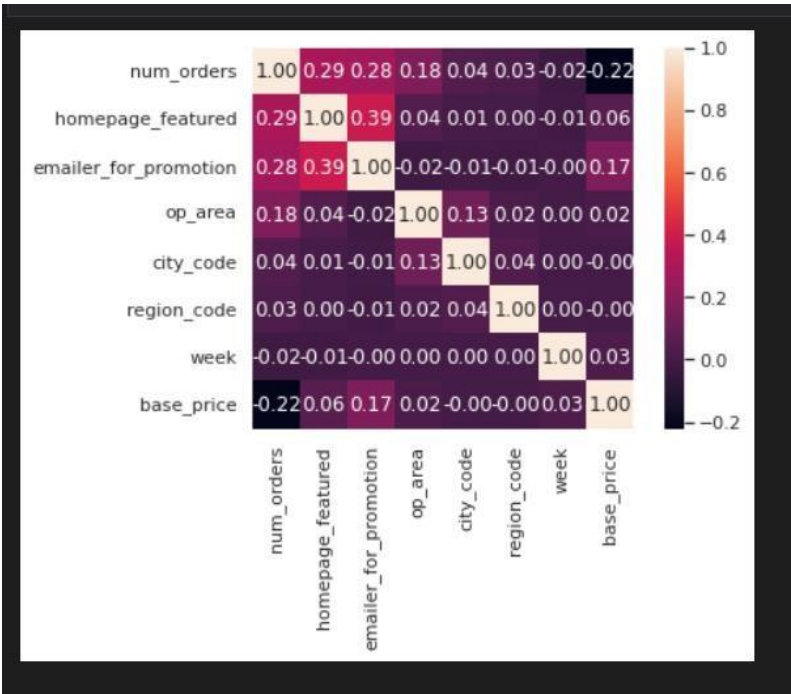
S.No.	Parameter	Values	Screenshot
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1.

Metrics

Correlation Matrix

Correlation Matrix



2.	Tune the Model	RMSLE Values comparison for Decision Tree Regression, XGB Regression, Linear Regression and Lasso Regression.	<div data-bbox="623 191 1490 600"> <h3>Decision Tree Regression</h3> <pre> KNN = DecisionTreeRegressor() KNN.fit(X_train, Y_train) y_pred = KNN.predict(X_val) y_pred[y_pred&lt;0] = 0 from sklearn import metrics print('RMSLE:', 100*np.sqrt(metrics.mean_squared_log_error(Y_val, y_pred))) </pre> <p>RMSLE: 89.69506088378594</p> </div> <div data-bbox="623 600 1490 1058"> <h3>XGB Regression</h3> <pre> XG = XGBRegressor() XG.fit(X_train, Y_train) y_pred = XG.predict(X_val) y_pred[y_pred&lt;0] = 0 from sklearn import metrics print('RMSLE:', 100*np.sqrt(metrics.mean_squared_log_error(Y_val, y_pr </pre> <p>[07:02:44] WARNING: /workspace/src/objective/regression_obj.cu:152: reg:l RMSLE: 101.75835240676072</p> </div> <div data-bbox="623 1058 1490 1415"> <h3>Linear Regression</h3> <pre> LR = LinearRegression() LR.fit(X_train, Y_train) y_pred = LR.predict(X_val) y_pred[y_pred&lt;0] = 0 from sklearn import metrics print('RMSLE:', 100*np.sqrt(metrics.mean_squared_log_error(Y_val, y_pr </pre> <p>RMSLE: 155.0295463202577</p> </div>
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			<div>Lasso Regression</div> <pre>L = Lasso() L.fit(X_train, Y_train) y_pred = L.predict(X_val) y_pred[y_pred&lt;0] = 0 from sklearn import metrics print('RMSLE:', 100*np.sqrt(metrics.mean_squared_log_error(Y_v</pre> <div>RMSLE: 153.61529213206654</div>
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