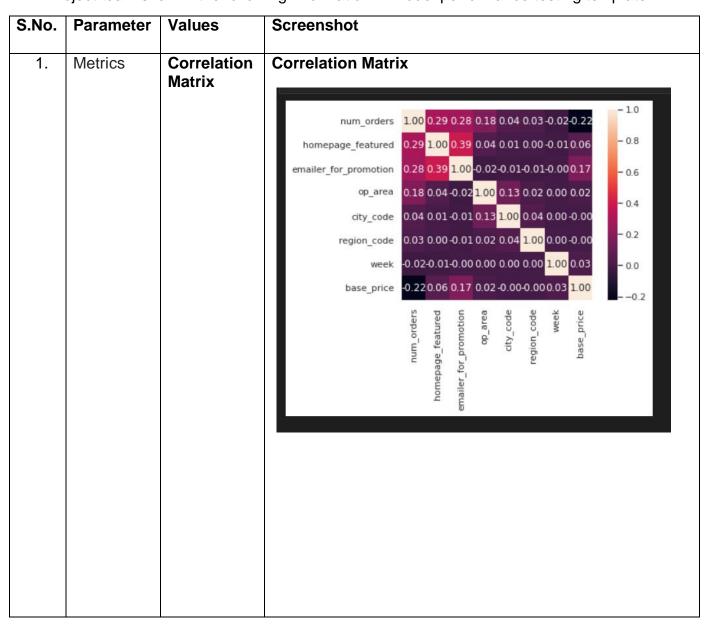
Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID52731
Project Name	Project – Al Powered Food Demand
	Forecaster
Maximum Marks	10 Marks

Model Performance Testing:

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



2. Tune the Model

RMSLE
Values
comparison
for Decision
Tree
Regression,
XGB
Regression,
Linear
Regression
and Lasso
Regression.

Decision Tree Regression

```
KNN = DecisionTreeRegressor()
KNN.fit(X_train, Y_train)
y_pred = KNN.predict(X_val)
y_pred[y_predx0] = 0
from sklearn import metrics
print('RMSLE:', 100*np.sqrt(metrics.mean_squared_log_error(Y_val, y_pred))
```

RMSLE: 89.69506088378594

XGB Regression

```
XG = XGBRegressor()
XG.fit(X_train, Y_train)
y_pred = XG.predict(X_val)
y_pred[y_pred<0] = 0
from sklearn import metrics
print('RMSLE:', 100*np.sqrt(metrics.mean_squared_log_error(Y_val, y_prediction))
[07:02:44] WARNING: /workspace/src/objective/regression_obj.cu:152: reg:12
RMSLE: 101.75835240676072</pre>
```

Linear Regression

```
LR = LinearRegression()
LR.fit(X_train, Y_train)
y_pred = LR.predict(X_val)
y_pred[y_pred<0] = 0
from sklearn import metrics
print('RMSLE:', 100*np.sqrt(metrics.mean_squared_log_error(Y_val, y_pred))</pre>
```

RMSLE: 155.0295463202577

```
L = Lasso()
L.fit(X_train, Y_train)
y_pred = L.predict(X_val)
y_pred[y_pred<0] = 0
from sklearn import metrics
print('RMSLE:', 100*np.sqrt(metrics.mean_squared_log_error(Y_v
```