TEAM ID: PNT2022TMID03331

PROJECT NAME: DemanEst – AI powered Food Demand Forecaster

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Model Evalution
In [58]: 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_pred)))
                [07:02:44] WARNING: /workspace/src/objective/regression_obj.cu:152: reg:linear is now deprecated in favor of reg:squareder
                 RMSLE: 101.75835240676072
 In [59]: LR = LinearRegression()
                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)))
                RMSLE: 155.0295463202577
In [60]:
L = Lasso()
L.fit(X_train, Y_train)
y_pred = L.predict(X_val)
y_pred(y_pred(y) = 0
from sklearn import metrics
print('RMSLE:', 100*np.sqrt(metrics.mean_squared_log_error(Y_val, y_pred)))
                 RMSLE: 153.61529213206654
RMSLE: 128.18160427515775
In [62]:
DT = DecisionTreeRegressor()
DT.fit(X_train, Y_train)
y_pred = DT.predict(X_val)
y_pred(y_pred(y) = 0
from sklearn import metrics
print('RMSLE:', 100*np.sqrt(metrics.mean_squared_log_error(Y_val, y_pred)))
               RMSLE: 89.75089729538145
In [63]: KNN = DecisionTreeRegressor()
KNN.fit(X_train, Y_train)
y_pred = KNN.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)))
               RMSLE: 89.69506088378594
In [64]: GB = DecisionTreeRegressor()
GB.fit(X_train, Y_train)
y_pred = GB.predict(X_wal)
y_pred[y_pred(0] = 0
from sklearn import metrics
print('RMSLE:', 100*np.sqrt(metrics.mean_squared_log_error(Y_val, y_pred)))
               RMSLE: 89.73216404160908
```