

Model Building

Model Evaluation

Date	11-November-2022
Team ID	PNT2022TMID18620
Project Name	DemandEst - AI powered Food Demand Forecaster

Model Evaluation

```
from sklearn import metrics
print('RMSLE:',100*np.sqrt(metrics.mean_squared_log_error(y_val,y_pred)))
               r.edict(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: 129.8095924419418

EN=ElasticNet()
EN.fit(x_train,y_train)
y_pred=EN.predict(x_val)
y_pred[y_pred(0)=0
From sklearn */
 In [68]: L=Lasso()
In [69]: EN=ElasticNet()
                EN=ElasticNet()
EN.fit(x_train,y_train)
y_predsEN.predict(x_val)
y_preds[y_preds0]=0
from sklearn import metrics
print('RMSLE:',100*np.sqrt(metrics.mean_squared_log_error(y_val,y_pred)))
                RMSLE: 131.23278835846813
 In [70]: DT=DecisionTreeRegressor()
                DT.fit(x_train,y_train)
y_pred=DT.predict(x_val)
                y_pred[y_pred<0]=0
from sklearn import metrics</pre>
                print('RMSLE:',100*np.sqrt(metrics.mean_squared_log_error(y_val,y_pred)))
                RMSLE: 62.85827099088529
 In [71]: KNN=KNeighborsRegressor()
KNN.fit(x_train,y_train)
y_pred=KNN.predict(x_val)
y_pred(0]=0
                 y_pred[y_pred<0]=0
from sklearn import metrics
                 print(\texttt{'RMSLE:',100*np.sqrt}(\texttt{metrics.mean\_squared\_log\_error}(y\_val,y\_pred)))
                RMSLE: 66.49955164596949
  In [72]: GB=GradientBoostingRegressor()
                 GB.fit(x_train,y_train)
y_pred=GB.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: 97.11281806834916
```