Model Building

Model Evaluation

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| Team ID | PNT2022TMID18078 |
| Project Name | DemandEst - AI powered Food Demand Forecaster |

Model Evaluation

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In [67]: 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: 129.8095924419418
In [68]: L=Lasso()
          L.fit(x_train,y_train)
          y_pred=LR.predict(x_val)
y_pred[y_pred<0]=0
           print('RMSLE:',100*np.sqrt(metrics.mean_squared_log_error(y_val,y_pred)))
           RMSLE: 129.8095924419418
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: 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
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[y_pred<0]=0
from sklearn import metrics
              print('RMSLE:',100*np.sqrt(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
```