TEAM ID: PNT2022TMID03401

PROJECT NAME: DemandEst – AI powered Food Demand Forecaster

Predicting the output using the model

In [66]:
```
testfinal = pd.merge(test, meal_info, on="meal_id", how="outer")
testfinal = pd.merge(testfinal, center_info, on="center_id", how="outer")
testfinal = testfinal.drop(['meal_id', 'center_id'], axis=1)


tcols = testfinal.columns.tolist()
tcols = tcols[:2] + tcols[8:] + tcols[6:8] + tcols[2:6]
testfinal = testfinal[tcols]


Ib1 = LabelEncoder()
testfinal['center_type'] = Ib1.fit_transform(testfinal['center_type'])

Ib2 = LabelEncoder()
testfinal['category'] = Ib1.fit_transform(testfinal['category'])

Ib3 = LabelEncoder()
testfinal['cuisine'] = Ib1.fit_transform(testfinal['cuisine'])

X_test = testfinal[features].values


pred = DT.predict(X_test)
pred[pred<0] = 0
submit = pd.DataFrame({
    'id' : testfinal['id'],
    'num_orders' : pred
})
```

In [67]:
```
submit.to_csv("submission.csv", index=False)
submit.describe()
```

Out[67]:

	id	num_orders
count	3.257300e+04	32573.000000
mean	1.248476e+06	246.629325
std	1.441580e+05	332.391151
min	1.000085e+06	13.000000
25%	1.123969e+06	55.000000
50%	1.247296e+06	136.000000
75%	1.372971e+06	312.000000
max	1.499996e+06	7073.000000