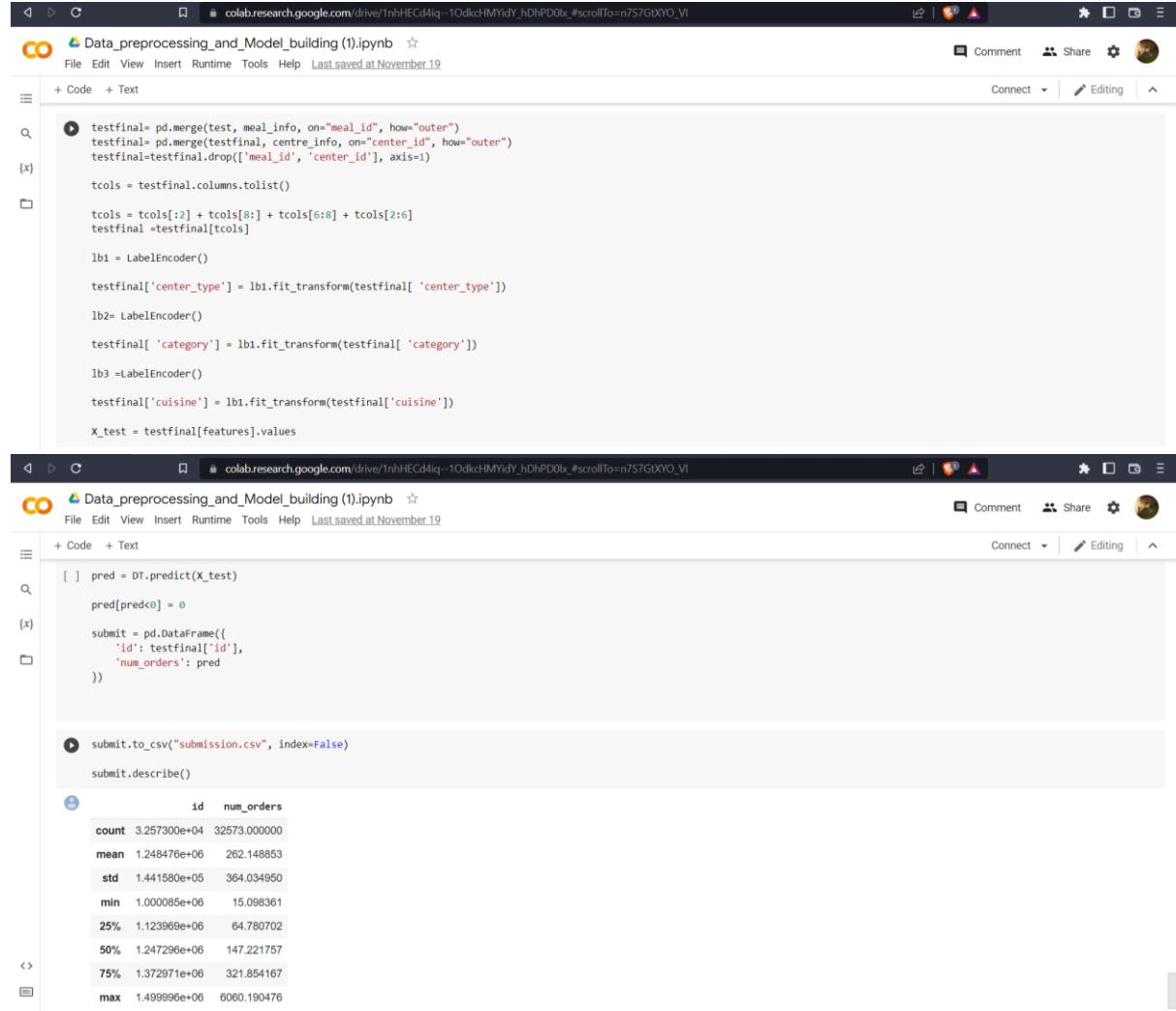


Team ID: PNT2022TMID23576

PROJECT NAME: DemandEst - AI powered Food Demand Forecaster

## Team Leader



The screenshot shows two Jupyter Notebook cells. The first cell contains code for merging datasets and applying LabelEncoder to categorical features:

```
testfinal= pd.merge(test, meal_info, on="meal_id", how="outer")
testfinal= pd.merge(testfinal, centre_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]

lb1 = LabelEncoder()
testfinal['center_type'] = lb1.fit_transform(testfinal[ 'center_type'])

lb2= LabelEncoder()
testfinal[ 'category'] = lb2.fit_transform(testfinal[ 'category'])

lb3 =LabelEncoder()
testfinal['cuisine'] = lb3.fit_transform(testfinal['cuisine'])

X_test = testfinal[features].values
```

The second cell contains code for making predictions and saving the results to a CSV file:

```
[ ] pred = DT.predict(X_test)
pred[pred<0] = 0

submit = pd.DataFrame({
    'id': testfinal['id'],
    'num_orders': pred
})

submit.to_csv("submission.csv", index=False)
submit.describe()
```

Below the second cell, the resulting summary statistics for the 'num\_orders' column are displayed:

	id	num_orders
count	3.257300e+04	32573.000000
mean	1.248476e+06	262.148853
std	1.441580e+05	364.034950
min	1.000085e+06	15.098361
25%	1.123969e+06	64.780702
50%	1.247296e+06	147.221757
75%	1.372971e+06	321.854167
max	1.499996e+06	6060.190476

# Team Member 1

The screenshot shows two code cells in a Google Colab notebook titled "Data\_preprocessing\_and\_Model\_building (1).ipynb".

**Code Cell 1:**

```
testfinal= pd.merge(test, meal_info, on="meal_id", how="outer")
testfinal= pd.merge(testfinal, centre_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]

lb1 = LabelEncoder()
testfinal['center_type'] = lb1.fit_transform(testfinal[ 'center_type'])

lb2= LabelEncoder()

testfinal[ 'category'] = lb2.fit_transform(testfinal[ 'category'])

lb3 =LabelEncoder()

testfinal['cuisine'] = lb3.fit_transform(testfinal['cuisine'])

X_test = testfinal[features].values
```

**Code Cell 2:**

```
[ ] pred = DT.predict(X_test)

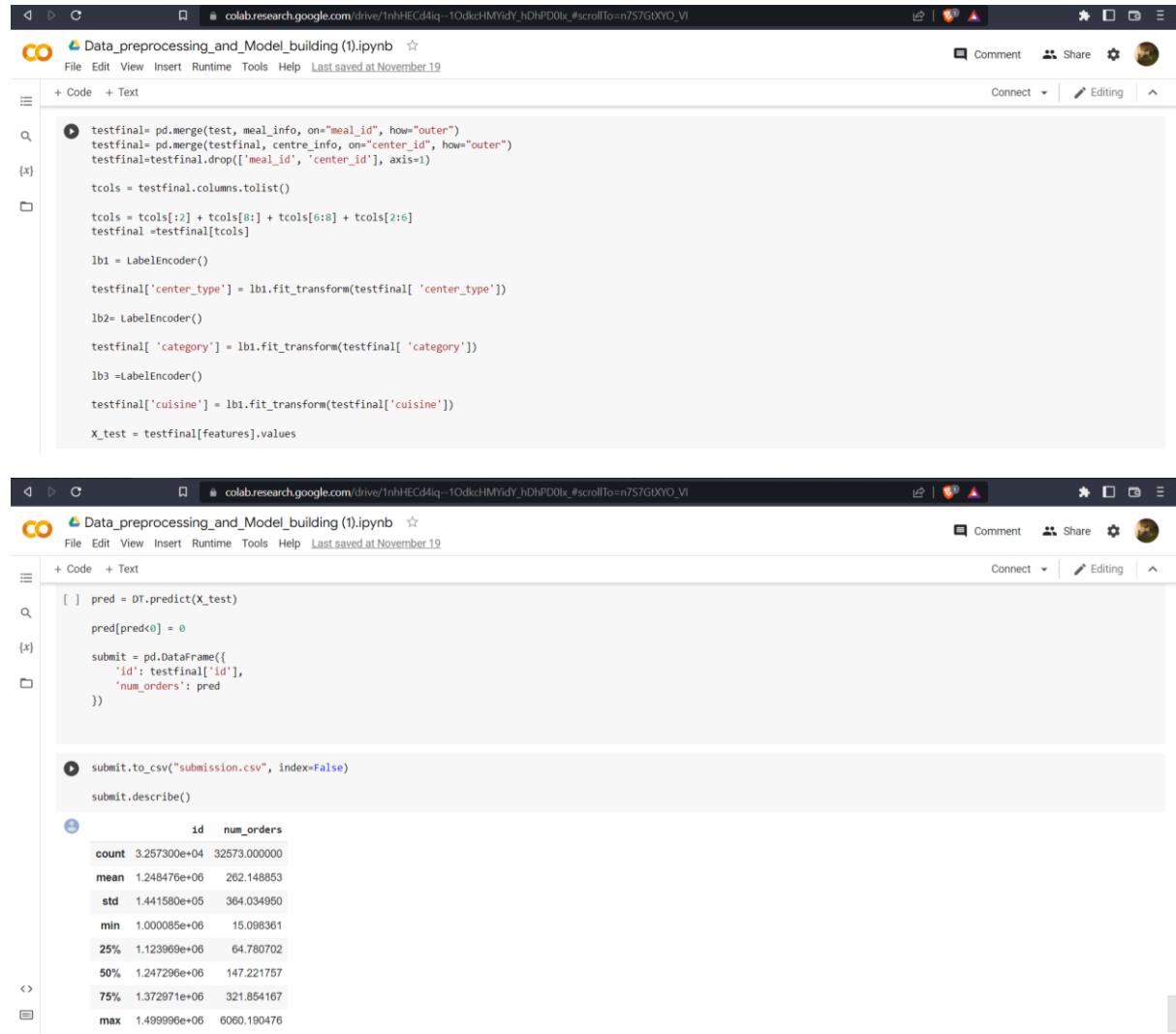
pred[pred<0] = 0

submit = pd.DataFrame({
    'id': testfinal['id'],
    'num_orders': pred
})

submit.to_csv("submission.csv", index=False)
submit.describe()
```

	id	num_orders
count	3.257300e+04	32573.000000
mean	1.248476e+06	262.148853
std	1.4411580e+05	364.034950
min	1.000085e+06	15.098361
25%	1.123969e+06	64.780702
50%	1.247296e+06	147.221757
75%	1.372971e+06	321.854167
max	1.499996e+06	6060.190476

## Team Member 2



The screenshot shows two consecutive code snippets from a Google Colab notebook titled "Data\_preprocessing\_and\_Model\_building (1).ipynb".

**Code Snippet 1:**

```
testfinal= pd.merge(test, meal_info, on="meal_id", how="outer")
testfinal= pd.merge(testfinal, centre_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]

lb1 = LabelEncoder()
testfinal['center_type'] = lb1.fit_transform(testfinal[ 'center_type'])

lb2= LabelEncoder()
testfinal[ 'category'] = lb2.fit_transform(testfinal[ 'category'])

lb3 =LabelEncoder()
testfinal['cuisine'] = lb3.fit_transform(testfinal['cuisine'])

X_test = testfinal[features].values
```

**Code Snippet 2:**

```
[ ] pred = DT.predict(X_test)
pred[pred<0] = 0

submit = pd.DataFrame({
    'id': testfinal['id'],
    'num_orders': pred
})

submit.to_csv("submission.csv", index=False)
submit.describe()
```

	id	num_orders
count	3.257300e+04	32573.000000
mean	1.248476e+06	262.148853
std	1.441580e+05	364.034950
min	1.000085e+06	15.098361
25%	1.123969e+06	64.780702
50%	1.247296e+06	147.221757
75%	1.372971e+06	321.854167
max	1.499996e+06	6060.190476

## Team Member 3

The screenshot shows two code cells in a Google Colab notebook titled "Data\_preprocessing\_and\_Model\_building (1).ipynb".

**Code Cell 1:**

```
testfinal= pd.merge(test, meal_info, on="meal_id", how="outer")
testfinal= pd.merge(testfinal, centre_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]

lb1 = LabelEncoder()
testfinal['center_type']= lb1.fit_transform(testfinal[ 'center_type'])

lb2= LabelEncoder()
testfinal[ 'category']= lb2.fit_transform(testfinal[ 'category'])

lb3 =LabelEncoder()
testfinal[ 'cuisine']= lb3.fit_transform(testfinal['cuisine'])

X_test = testfinal[features].values
```

**Code Cell 2:**

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

submit.to_csv("submission.csv", index=False)
submit.describe()
```

	id	num_orders
count	3.257300e+04	32573.000000
mean	1.248476e+06	262.148853
std	1.4411580e+05	364.034950
min	1.000085e+06	15.098361
25%	1.123969e+06	64.780702
50%	1.247296e+06	147.221757
75%	1.372971e+06	321.854167
max	1.499996e+06	6060.190476