

OUTPUTS:

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Untitled1.ipynb ☆

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Files

- sample_data
 - README.md
 - anscombe.json
 - california_housing_test.csv
 - california_housing_train.csv
 - mnist_test.csv
 - mnist_train_small.csv
 - flightdata.csv

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```
+ Code + Text
from sklearn.neighbors import KNeighborsClassifier
from sklearn.model_selection import RandomizedSearchCV
import imblearn
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
from sklearn.metrics import accuracy_score, classification_report, confusion_matrix, f1_score

import pandas as pd
import numpy as np
import pickle
import matplotlib.pyplot as plt
%matplotlib inline
import seaborn as sns
import sklearn
from sklearn.tree import DecisionTreeClassifier
from sklearn.ensemble import GradientBoostingClassifier
from sklearn.neighbors import KNeighborsClassifier
from sklearn.model_selection import RandomizedSearchCV
import imblearn
from sklearn.model_selection import train_test_split
from sklearn.preprocessing import StandardScaler
from sklearn.metrics import accuracy_score, classification_report, confusion_matrix, f1_score
```

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Flight_Delay_Predi...pdf flightdata.csv condong for naan.txt

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- .config
- .ipynb_checkpoints
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```
+ Code + Text
data=pd.read_csv("flightdata.csv")
dataset.head()
```

	YEAR	QUARTER	MONTH	DAY_OF_MONTH	DAY_OF_WEEK	UNIQUE_CARRIER	TAIL_NUM	FL_NUM	ORIGIN_AIRPORT_ID	ORIGIN
0	2016	1	1	1	5	DL	N836DN	1399	10397	ATL
1	2016	1	1	1	5	DL	N964DN	1476	11433	DTW
2	2016	1	1	1	5	DL	N813DN	1597	10397	ATL
3	2016	1	1	1	5	DL	N587NW	1768	14747	SEA
4	2016	1	1	1	5	DL	N836DN	1823	14747	SEA

5 rows x 26 columns

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Files

- ..
- sample_data
- flightdata.csv

Code

```
dataset.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 11231 entries, 0 to 11230
Data columns (total 26 columns):
#   Column                Non-Null Count  Dtype
---  -
0   YEAR                  11231 non-null  int64
1   QUARTER               11231 non-null  int64
2   MONTH                11231 non-null  int64
3   DAY_OF_MONTH         11231 non-null  int64
4   DAY_OF_WEEK          11231 non-null  int64
5   UNIQUE_CARRIER      11231 non-null  object
6   TAIL_NUM             11231 non-null  object
7   FL_NUM              11231 non-null  int64
8   ORIGIN_AIRPORT_ID    11231 non-null  int64
9   ORIGIN               11231 non-null  object
10  DEST_AIRPORT_ID      11231 non-null  int64
11  DEST                 11231 non-null  object
12  CRS_DEP_TIME         11231 non-null  int64
13  DEP_TIME             11124 non-null  float64
14  DEP_DELAY            11124 non-null  float64
15  DEP_DELAY15         11124 non-null  float64
16  CRS_ARR_TIME         11231 non-null  int64
```

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 - mnist_train_small.csv
 - flightdata.csv

Code

```
from sklearn.preprocessing import LabelEncoder
le=LabelEncoder()
dataset['DEST']=le.fit_transform(dataset['DEST'])
dataset['ORIGIN']=le.fit_transform(dataset['ORIGIN'])
dataset.head(5)
```

```
   YEAR  QUARTER  MONTH  DAY_OF_MONTH  DAY_OF_WEEK  UNIQUE_CARRIER  TAIL_NUM  FL_NUM  ORIGIN_AIRPORT_ID  ORIGIN
0  2016         1      1           1           5             DL      N836DN    1399           10397      0
1  2016         1      1           1           5             DL      N964DN    1476           11433      1
2  2016         1      1           1           5             DL      N813DN    1597           10397      0
3  2016         1      1           1           5             DL      N587NW    1768           14747      4
4  2016         1      1           1           5             DL      N836DN    1823           14747      4
```

5 rows x 26 columns

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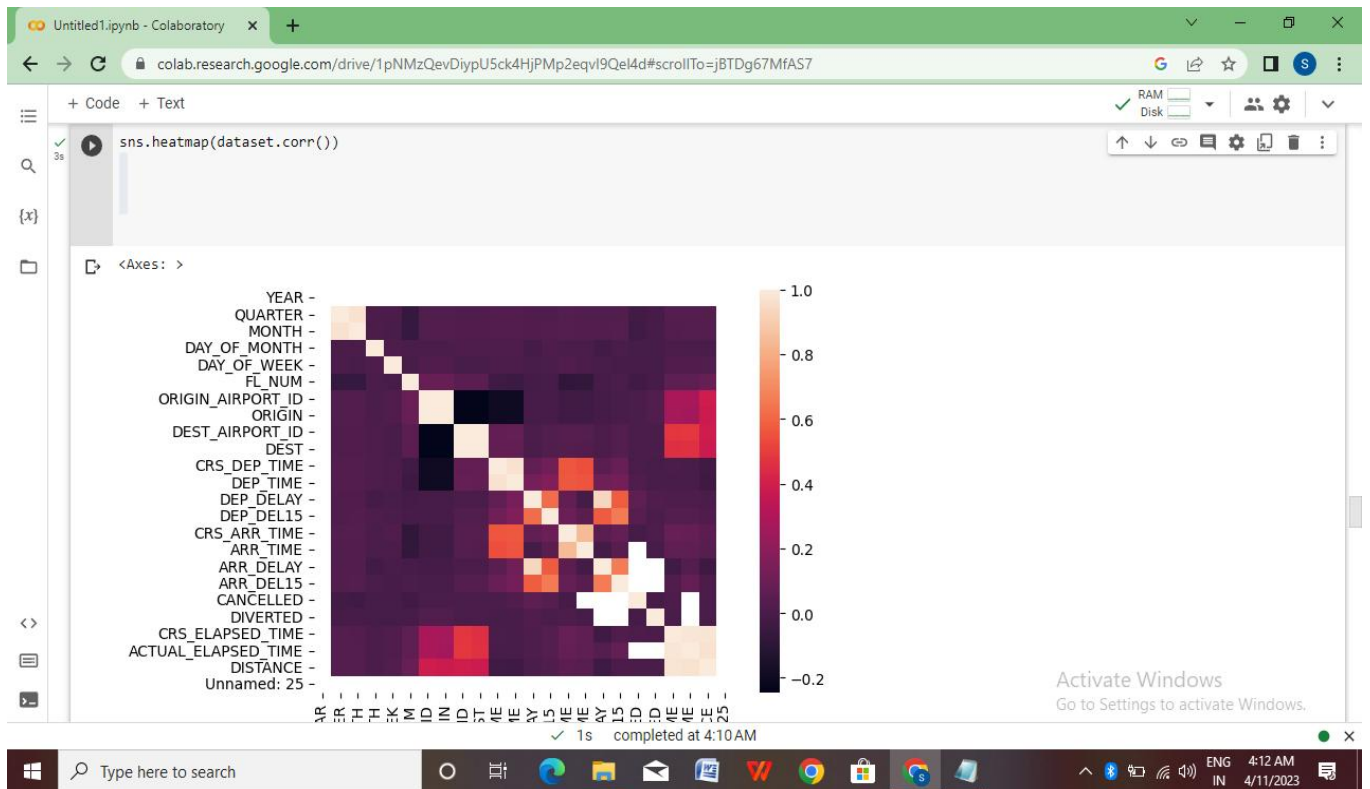
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+ Code + Text

```
dataset=dataset.drop('Unnamed: 25',axis=1)
dataset.isnull().sum()
```

```
YEAR          0
QUARTER       0
MONTH         0
DAY_OF_MONTH  0
DAY_OF_WEEK   0
UNIQUE_CARRIER 0
TAIL_NUM      0
FL_NUM        0
ORIGIN_AIRPORT_ID 0
ORIGIN        0
DEST_AIRPORT_ID 0
DEST          0
CRS_DEP_TIME   0
DEP_TIME      107
DEP_DELAY      107
DEP_DEL15      107
CRS_ARR_TIME   0
ARR_TIME      115
ARR_DELAY      188
ARR_DEL15      188
CANCELLED      0
DIVERTED       0
CRS_ELAPSED_TIME 0
ACTUAL_ELAPSED_TIME 188
DISTANCE       0
dtype: int64
```

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+ Code + Text

```
#filter the dataset to eliminate columns that aren't relevant to a predictive model.
dataset=dataset[["FL_NUM","MONTH","DAY_OF_MONTH","DAY_OF_WEEK","ORIGIN","DEST","CRS_ARR_TIME"]]
dataset.isnull().sum()
```

```
FL_NUM      0
MONTH       0
DAY_OF_MONTH 0
DAY_OF_WEEK  0
ORIGIN      0
DEST        0
CRS_ARR_TIME 0
dtype: int64
```

```
[ ]
```

```
sns.scatterplot(x='ARR_DELAY',y='ARR_DEL15',data=flight_data)
```

```
[ ]
```

```
[ ] import math
for index,row in dataset.iterrows():
```

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+ Code + Text

```
print('Prediction: no chance of delay.')
```

```
[13]
```

```
[ ] from sklearn import model_selection
from sklearn.neural_network import MLPClassifier
```

```
[ ] from sklearn.ensemble import RandomForestClassifier
rfc = RandomForestClassifier(n_estimators=10,criterion='entropy')
```

```
#importing the necessary dependencies
from flask import Flask,request,render_template
import numpy as np
import pandas as pd
import pickle
import os
```

```
[6] dfs=[]
models=[
    ('RF',RandomForestClassifier()),
    ('DecisionTree',DecisionTreeClassifier()),
```

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