

Sprint-1

Date	06-11-2022
Team ID	PNT2022TMID41699
Project Name	Developing a flight delay prediction

FLASK:

```
from flask import Flask
,request,render_templateimport numpy as
np
import
pandas as pd
import
pickle
import os
model=pickle.load(open('flight.p
kl','rb'))app=Flask(__name)
@app.route('homepage.html')
def home():
    return
render_template("index.html")
@app.route('/prediction',methods=['P
OST'])def predict():
```

```
name=request.form['name']
month=request.form['month']
dayofmonth = request
.form['dayofmonth']dayofweek =
request.form['origin']
if(origin1=="msp"):
    origin1,origin2,origin3,origin4,origin5 =
0,0,0,0,1if(origin2 == "dtw"):
    origin1,origin2,origin3,origin4,origin5= 1,0,0,0,0
if(origin3== "jfk"):
    origin1,origin2,origin3,origin4,origin5 =
0,0,1,0,0
if(origin4 == "sea"):
    origin1,origin2,origin3,origin4,origin5 =
0,1,0,0,0
if(origin5 == "alt"):
    origin1,origin2,origin3,origin4,origin5 =
0,0,0,1,0

destination =
request.form['destination']
if(destination == "msp"):
```

```

destination1,destination2, destination3,destination4,destination5
=0,0,0,0,1if(destination == "dtw"):
    destination1,destination2, destination3,destination4,destination5 =
1,0,0,0,0if(destination == "jfk"):
    destination1,destination2, destination3,destination4,destination5 =
0,0,1,0,0if(destination == "sea"):
    destination1,destination2, destination3,destination4,destination5
=0,1,0,0,0if(destination == "alt"):
    destination1,destination2, destination3,destination4,destination5
=0,0,0,1,0dept= request.form['dept']
arrtime                =
request.form['arrtime']
actdept                =
request.form['actdept']
dept15=int(dept)-
int(actdept)
total=('Name,month,day of month,dayofweek,
origin1,origin2,origin3,origin4,origin5,destination1,destination2,
destination3,destination4,destination5')

y_pred =
model.predict(total)
print(y_pred)

```

```
if (y_pred == [0.1]):  
    ans="The Flight will be  
on time"else:  
    ans="The Flight will be  
delayed"def index():  
    return render_template('homepage.html'  
)
```