SPRINT-1

Date	06-11-2022
Team ID	PNT2022TMID16459
Project Name	Developing a flight delay prediction

FLASK:

```
from flask import Flask ,request,render_template
import numpy as np
import pandas as pd
import pickle
import os
model=pickle.load(open('flight.pkl','rb'))
app=Flask(__name__)
@app.route('homepage.html')
def home():
    return render_template("index.html")
@app.route('/prediction',methods=['POST'])
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 = 0,0,0,0,1
    if(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,orgin5 = 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 =0,0,0,0,1
if(destination == "dtw"):
     destination1,destination2, destination3,destination4,destination5 = 1,0,0,0,0
if(destination == "jfk"):
    destination1,destination2, destination3,destination4,destination5 = 0,0,1,0,0
if(destination == "sea"):
    destination1,destination2, destination3,destination4,destination5 =0,1,0,0,0
if(destination == "alt"):
     destination1,destination2, destination3,destination4,destination5 =0,0,0,1,0
dept= 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'
    )
```