## **Sprint-3**

Project name	Developing a flight delay prediction using machine
	learning
Team ID	PNT2022TMID41699

## FLASK: (app.ibm.py)

import time

import requests

import flask

from flask import request, render\_template

from flask\_cors import CORS

import requests

# NOTE: you must manually set API\_KEY below using information retrieved from your IBM Cloud account.

API\_KEY = "give your api key"

token\_response =

requests.post('https://iam.cloud.ibm.com/identity/token', data={"apikey":

API\_KEY, "grant\_type": 'urn:ibm:params:oauth:grant-

type:4fJbepuok7oCO1UkeKU831Sq5rz5-JP0R\_hljeB2oaEL'})

mltoken = token\_response.json()["access\_token"]

```
header = {'Content-Type': 'application/json', 'Authorization': 'Bearer' +
mltoken }
app = flask.Flask( name ,
static_url_path='c:/Users/ELCOT/Desktop/templates/app.py')
CORS(app)
@app.route('/', methods=['GET'])
def sendHomePage():
  return render template('index.html')
@app.route('/predict',
methods=['POST']) def predict():
  EnterflightNumber = str(request.form['Enter flight Number'])
  Month = int(request.form['month'])
  Dayofmonth= int(request.form['day of month'])
  Dayofweek= float(request.form['day of week'])
  origin=float(request.form['origin'])
  Destination=float(request.form['destination'])
  scheduleddeparturetime=time(request.form['scheduled
departure time'])
  scheduledarrivaltime=time(request.form['scheduled arraival time'])
  Actualtime=time(request.form['actual time'])
  X = [('Enter flight Number, Month, Day of month, Day of
week, origin, Destination, scheduled departure time, scheduled
arrival time, actual time')]
```

```
payload_scoring =
"input_data";[("field")];("EnterflightNumb','Month','Dayofmonth','Dayof
week', 'origin', '
Destination', 'scheduledarrivaltime, 'scheduledarrivaltime', 'actual time'),
"values": X
  response_scoring = requests.post('https://us-
south.ml.cloud.ibm.com/ml/v4/deployments/a7a269f3-d3c1-4e2d-85b2-
47e1bf6bbfee/predictions?version=2022-10-13', json=payload_scoring,
headers={'Authorization': 'Bearer ' + mltoken})
  print(response_scoring)
  predictions = response_scoring.json()
  predict = predictions['predictions'][0]['values'][0][0]
  print("Final prediction :",predict)
  # showing the prediction results in a UI# showing the
prediction results in a UI
  return render_template('predict.html', predict=predict)
if __name__ == '__main___':
  app.run(debug= False)
```