NM2023TMID32012 - Flight Delay Prediction

Milestone 6: Model Deployment

Activity 1: Save the best model

```
[1]:  import pickle

      pickle.dump (RCV, open('flight.pkl', 'wb'))
```

```
---------------------------------------------------------------
NameError                            Traceback (most recent call last)
/tmp/ipykernel_22/3207129172.py in <module>
      1 import pickle
      2
----> 3 pickle.dump (RCV, open('flight.pkl', 'wb'))

NameError: name 'RCV' is not defined
```

Activity 2: Integrate with Web Framework

```
[ ]:  # importing the necessary dependencies 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__)#initializing the app
```

```
[ ]:  @app.route('/')

      def home ():
          return render_template("index.html")

      @app.route('/prediction', methods =['POST'])
```

+ Code   + Markdown

```python
[ ]:   def

       predict():

       name= request.form['name'] month= request.form['month']

       dayofmonth = request.form['dayofmonth']

       dayofweek = request.form['dayofweek'] origin= request.form['origin']

       if (origin == "sp"):

       origini, origin2, origin3, origins, orgin5 if (origin "tv"):

       origini, origin2, origin3, origine, orgin

       if (origin "k"):

       origini, origin2, origin3, origine, orgin if (origin="sea"): 10,0,1,0,0

       origini, origin2, origin3, origine, orgin5

       =
```

▷

```
Serving Flask app "app" (lazy loading)

Environment: production

WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI se

Debug mode: on

Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

+ Code   + Markdown

Prediction of Flight Delay

Enter the Flight Number :

Month :

Day of Month :

Day of Week :

origin MSP

destination MSP

Scheduled Departure Time :

Scheduled Arrival Time :

Actual Departure Time :

SUBMIT

Prediction of Flight Delay

Enter the Flight Number :

Month :

Day of Month :

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origin MSP

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Scheduled Departure Time :

Scheduled Arrival Time :

Actual Departure Time :

SUBMIT

The Flight will be on time