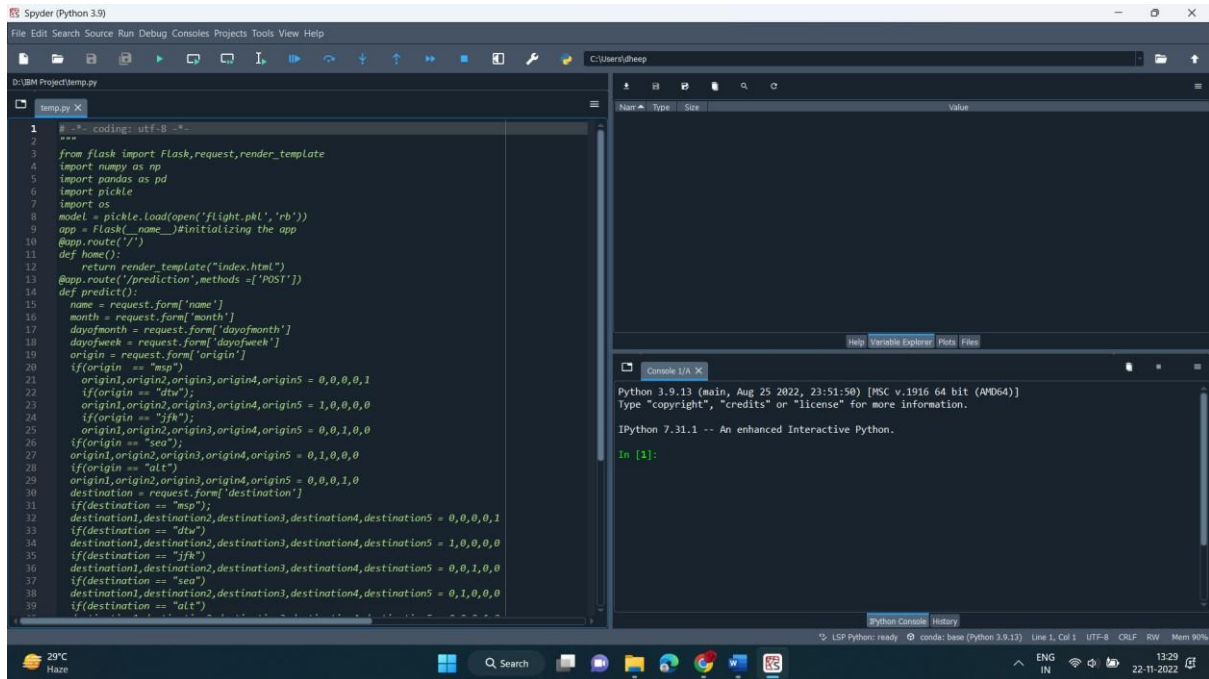


INTEGRATE FLASK WITH SCORING END POINT

DATE	01 NOVEMBER 2022
TEAM ID	PNT2022TMID27775
PROJECT NAME	DEVELOPING A FLIGHT DELAY PREDICTION MODEL BY USING MACHINE LEARNING



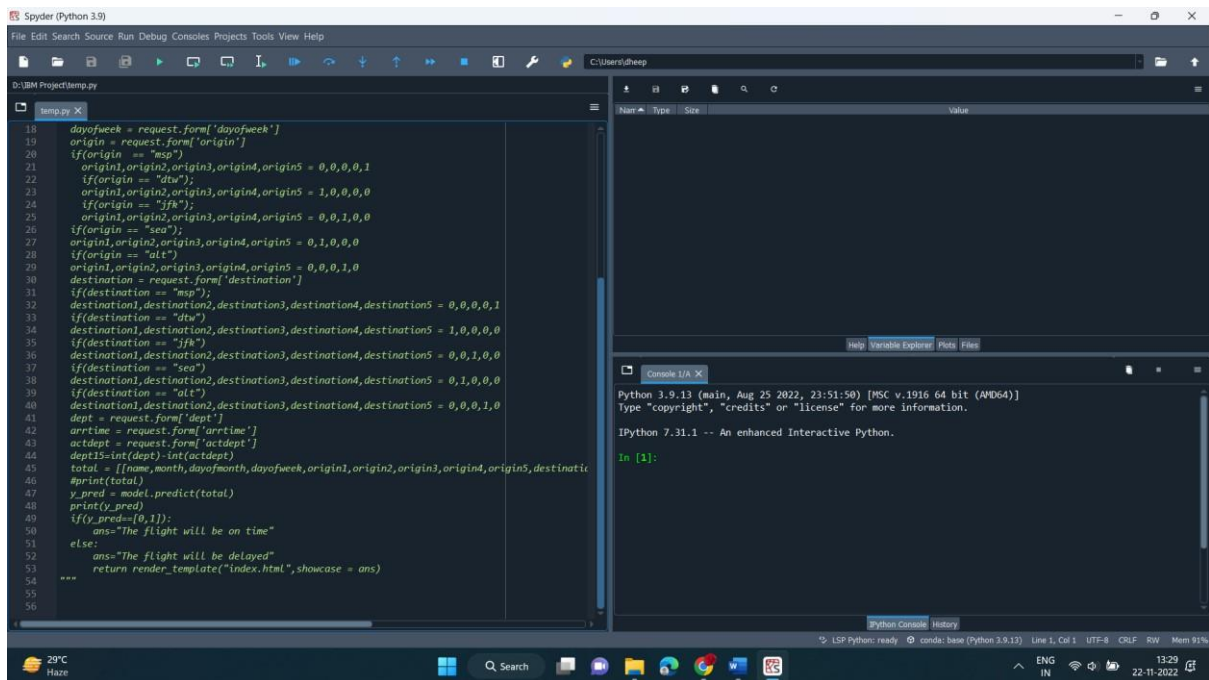
The screenshot displays the Spyder Python IDE interface. The main editor window shows a Python script named `temp.py` with the following code:

```
1 #-*- coding: utf-8 -*-
2 """
3 from flask import Flask, request, render_template
4 import numpy as np
5 import pandas as pd
6 import pickle
7 import os
8 model = pickle.load(open('flight.pkl', 'rb'))
9 app = Flask(__name__) #initializing the app
10 @app.route('/')
11 def home():
12     return render_template("index.html")
13 @app.route('/prediction', methods = ['POST'])
14 def predict():
15     name = request.form['name']
16     month = request.form['month']
17     dayofmonth = request.form['dayofmonth']
18     dayofweek = request.form['dayofweek']
19     origin = request.form['origin']
20     if(origin == "msp"):
21         origin1, origin2, origin3, origin4, origin5 = 0, 0, 0, 0, 1
22     if(origin == "dtw"):
23         origin1, origin2, origin3, origin4, origin5 = 1, 0, 0, 0, 0
24     if(origin == "jfk"):
25         origin1, origin2, origin3, origin4, origin5 = 0, 0, 1, 0, 0
26     if(origin == "sea"):
27         origin1, origin2, origin3, origin4, origin5 = 0, 1, 0, 0, 0
28     if(origin == "lax"):
29         origin1, origin2, origin3, origin4, origin5 = 0, 0, 0, 1, 0
30     destination = request.form['destination']
31     if(destination == "msp"):
32         destination1, destination2, destination3, destination4, destination5 = 0, 0, 0, 0, 1
33     if(destination == "dtw"):
34         destination1, destination2, destination3, destination4, destination5 = 1, 0, 0, 0, 0
35     if(destination == "jfk"):
36         destination1, destination2, destination3, destination4, destination5 = 0, 0, 1, 0, 0
37     if(destination == "sea"):
38         destination1, destination2, destination3, destination4, destination5 = 0, 1, 0, 0, 0
39     if(destination == "lax"):
40         destination1, destination2, destination3, destination4, destination5 = 0, 0, 0, 1, 0
```

The right-hand side of the IDE shows the Python Console with the following output:

```
Python 3.9.13 (main, Aug 25 2022, 23:51:58) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license()" for more information.
IPython 7.31.1 -- An enhanced Interactive Python.
In [1]:
```

The bottom status bar indicates the current environment is 'conda: base (Python 3.9.13)' and the file is 'temp.py'.



def

home():

return render_template('index.html') def

y_predict():

geography = request.form("geography")

gender= request.form("gender") age=

request.form("age") tenure=

request.form("tenure") creditscore=

request.form("creditscore") balance=

request.form("balance") noof =

request.form["no of"]

hascreditcard = request.form{ "has credit card"} isactivemember

= request.form{ "isactivemember"} estimatedsalary =

request.form["estimated salary"] if(geography == "Spain"):

s1,s2,s3 = 0,0,1 if(geography

== "Germany"):

s1,s2,s3 = 0,1,0

if(geography == "Newyork"):

```

s1,s2,s3 = 0,1,0 if(gender
=="female"):
gender = 0 if(gender
=="male"):
gender = 1 if(isactivemember
=="no"):
isactivemember = 0
if(isactivemember == "yes"):
isactivemember = 1
if(hascreditcard == "no"):
hascreditcard = 0 if(hascreditcard
=="yes"):
hascreditcard = 1
t=[[int(s1),int(s2),int(s3),int(creditscore),int(gender),int(age),int(tenure),int(balance),int(noof)
,int(hascreditcard),int(isactivemember),int(estimatedsalary)]] print(t)

payload_scoring =
("input_data":[{ "field":[ "G1","G2","G3","CreditScore","Gender","Age","Tenure","Balance
","numofproducts","HasCrCard","IsActiveMember"

print("Scoring response') predictions =
response_scoring.json() print(predictions)
pred = predictions['predictions'][0]['values'][0][0] if(pred
== 0):
output = "he will not get excited"
print(" he will not get excited")
else:
output = "he gets excited"
print("he gets excited")

return render_template("index.html',prediction_text=output)
if __name__ == "__main__":
app.run(debug=True)

```

