Sprint - 4 objectives:

- Integrate Flask with the deployed model
- Test the Working Model for output

Screenshots:

Connecting using API endpoint:

API reference | Test

Direct link

Endpoint

https://us-south.ml.cloud.ibm.com/ml/v4/deployments/7d6c3b49-ec70-4cfe-ab88-4f6dbe6a7997/predictions?ver

Bearer <token>

IAM

Code snippets

cURL | Java | JavaScript | Python | Scala

```
import requests

# NOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud account.
API_KEY = "<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:apikey'})
mltoken = token_response.json()["access_token"]

header = {'Content-Type': 'application/json', 'Authorization': 'Bearer ' + mltoken}

# NOTE: manually define and pass the array(s) of values to be scored in the next line
payload_scoring = {"input_data": [{"fields": [array_of_input_fields], "values": [array_of_values_to_be_scored, another_array_of_val

response_scoring = requests.post('https://us-south.ml.cloud.ibm.com/ml/v4/deployments/7d6c3b49-ec70-4cfe-ab88-4f6dbe6a7997/predicti
 headers={'Authorization': 'Bearer ' + mltoken})
```

Flask integration achieved successfully.

C:\Users\manis\OneDrive\Desktop\ibm working\app.py

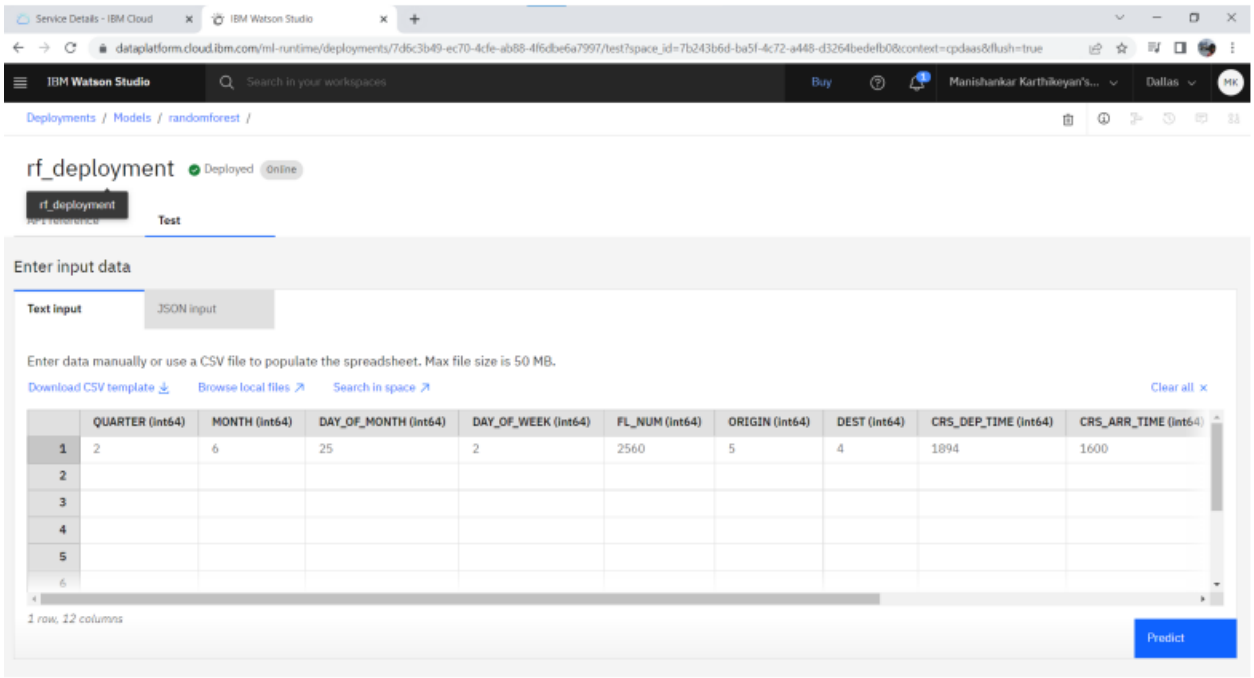
app.py | signup.html | summa.html | login.html | pred.html | dashboard.html

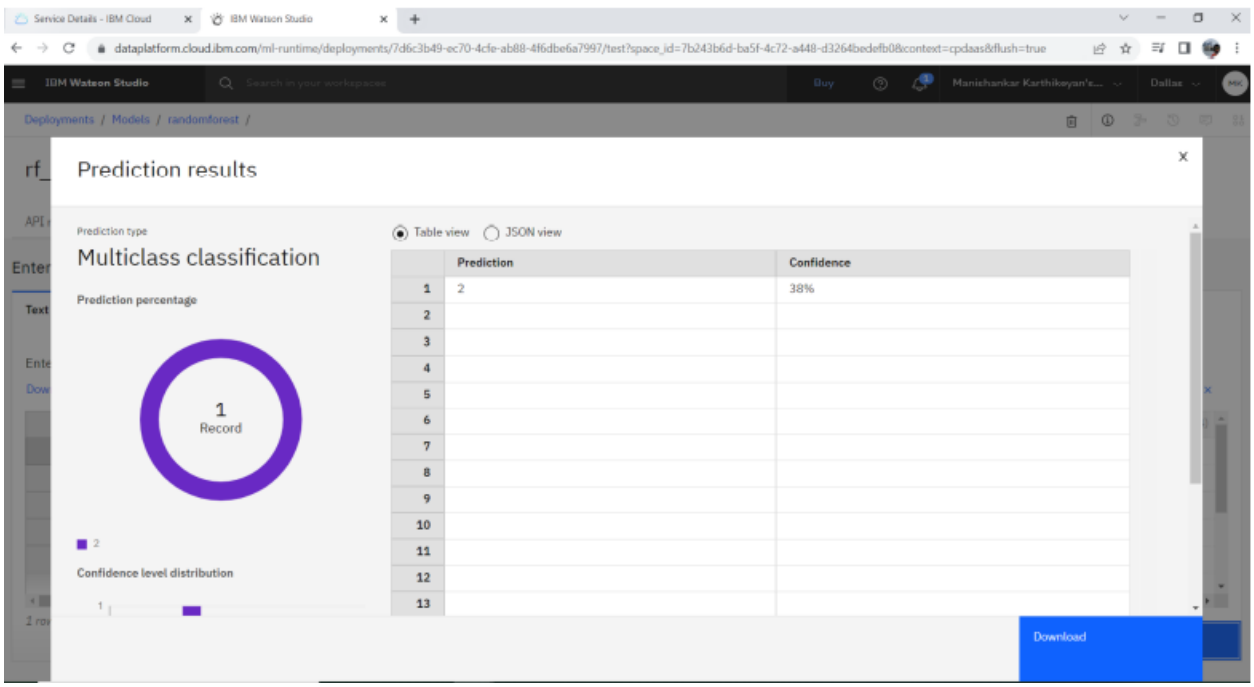
```
import os
from pymongo import MongoClient
from flask import Flask, request, render_template
import requests
client = MongoClient('localhost', 27017)
db = client.login

login = db.users
# NOTE: you must manually set API_KEY below using information retrieved from your IBM Cloud a
API_KEY = "FDu8w9acEuLpZiojHlEoW5Rc2uHT9889GjnPT5QZ0-LN"
token_response = requests.post('https://iam.cloud.ibm.com/identity/token', data={"apikey":
 API_KEY, "grant_type": 'urn:ibm:params:oauth:grant-type:apikey'})
mltoken = token_response.json()["access_token"]

header = {'Content-Type': 'application/json', 'Authorization': 'Bearer ' + mltoken}
app=Flask(__name__)
```

Deployed model testing in ibm:

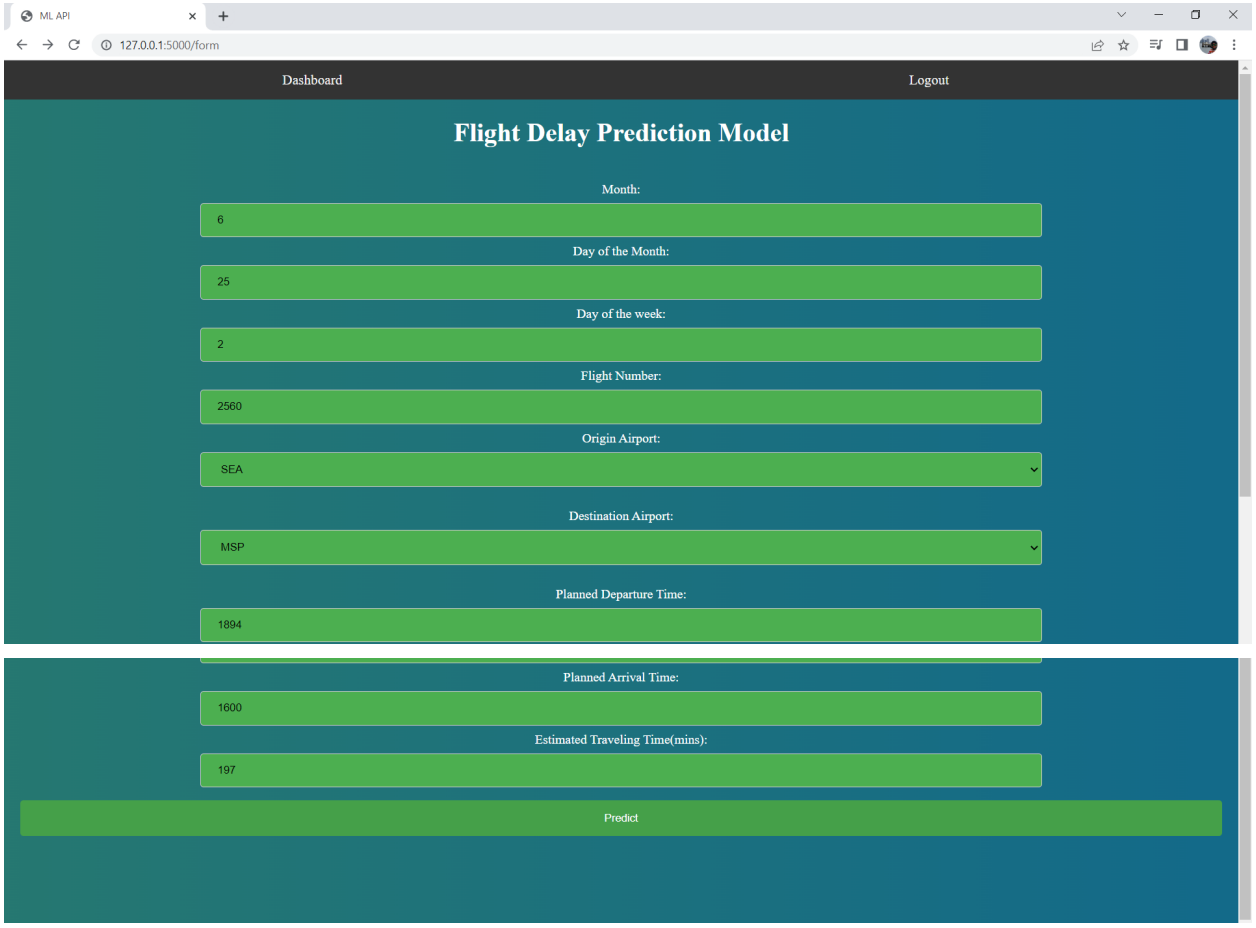




Output of 2 means it predicts delay in both arrival and departure.

Testing for the same input in the application:

Inputs:



Result: