Week 3: Deployment on Flask

Name: Suhas Yogeshwara

Batch Code: LISUM11: 30

Submission Date: 05/08/2022

Submitted to: Data Glaciers

Step 1: Collect a Dataset (simple Data) i.e., Kaggle. In my Case, I have Collected Salary Dataset for predicting the Salary based on Number of Years of Experience (Linear Regression Model).

```
In [1]: import pandas as pd
In [2]: ds=pd.read_csv('Salary_Data.csv')
Out[2]:
         YearsExperience Salary
       0 1.1 39343.0
                 1.3 46205.0
      2 1.5 37731.0
                2.0 43525.0
      4 2.2 39891.0
                 2.9 56642.0
              3.0 60150.0
      6
                 3.2 54445.0
              3.2 64445.0
       9
                 3.7 57189.0
      10 3.9 63218.0
       11
                 4.0 55794.0
      12
               4.0 56957.0
                4.1 57081.0
              4.5 61111.0
      14
                 4.9 67938.0
      16 5.1 66029.0
```

Step 2: Import the Data Using Suitable Libraries for the analysis (preferably pandas, in this case is Flask, Requests and Numpy).

Step 3: Write a basic Code to see if the Flask and the required Libraires are Installed Properly.

1.Write the Code

```
from flask import Flask

app=Flask(__name__)

@app.route('/')
def home():
return 'Home World!'

app.run(port=5000)
```

2.Run the Code Using Command Prompt or Terminal.

```
Microsoft Windows [Version 10.0.19043.1706]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Suhas\PycharmProjects\flaskdeployment>python 11.py

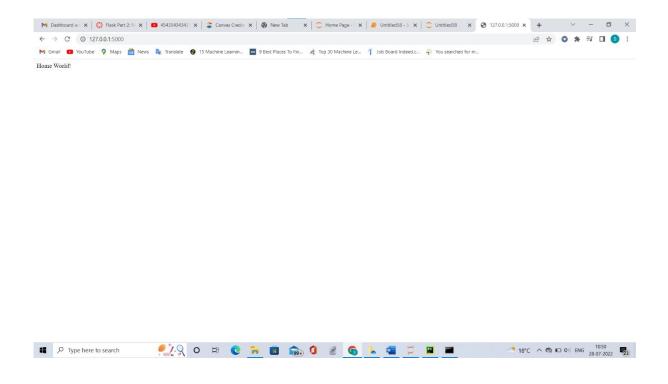
* Serving Flask app '11' (lazy loading)

* Environment: production
MARNING: This is a development server. Do not use it in a production deployment.

Use a production WSGI server instead.

* Debug mode: off

* Running on http://127.0.0.1:5000 (Press CTRL+C to quit)
127.0.0.1 - - [28/Jul/2022 10:46:06] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [28/Jul/2022 10:46:06] "GET / favicon.ico HTTP/1.1" 404 -
```



Step 4: Well, the Code is Correct and seems to be working Fine. Now write Code to Load the Data and the required Libraries should be installed.

```
claport numpy as np
from flask import Flask, request, render_template
claport pandas as pd

app = Flask(_name__)
app = Flask(_name__)

claport pandas as pd

app = rend_csv('C:/Users/Suhas/Downloads/Salary_Data.csv')

app = rend_csv('C:/Users/Suhas/Downloads/Salary_Data.csv')

app = return render_template('insert.html')

app = return render_template('insert.html')

app = return render_template('insert.html')

app = return render_template('insert.html')

app = redict | return render_template('insert.html')

app = redict | return render_template('insert.html')

app = redict | return render_template('insert.html', prediction_text='The average salary is ${}'.format(output))

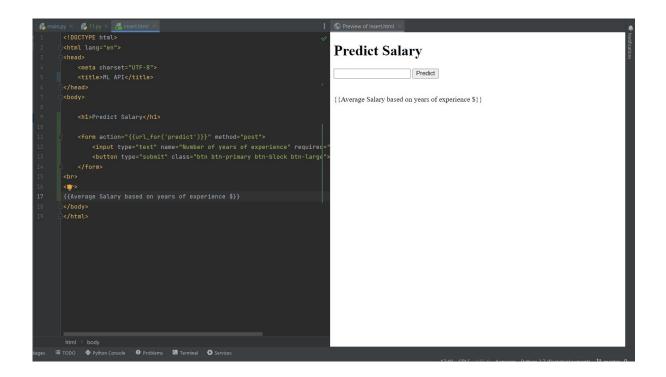
app.run(cort=5000, debug=True)

app.run(cort=5000, debug=True)

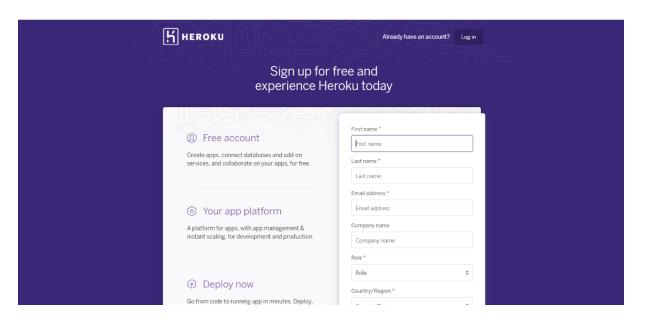
app.run(cort=5000, debug=True)
```

Step 5: Write a HTML Code or the pre-written Code given in Instruction Videos (which has been Modified based on the Requirements)

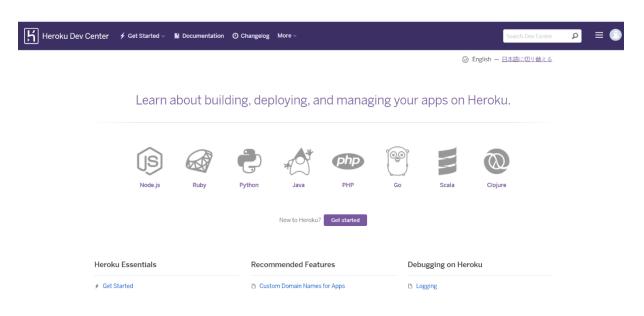
Step 6: Note (No Stylers were used here as the requirements were simple), Now run the Python Code to see the output.



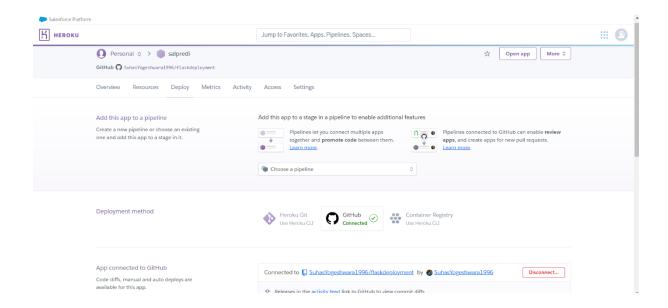
Step 7: Deployment of the model in Heroku Cloud Platform. By creating an account in Heroku.



Step 8: Supports Various Programming Languages.



Step 9 : either Connect GitHub to Heroku (the required repository for the deployment) or by manual means of installation i.e., Command Prompt.



Step 10: once the required dependencies are installed in the automatic deploy or manual deploy the app is deployed in cloud.

