Data Glacier Virtual Internship

Machine Learning Model Deployment with Flask

Student Details:

Name: Peter Abban

Batch No: LISUM48

Country: Hungary

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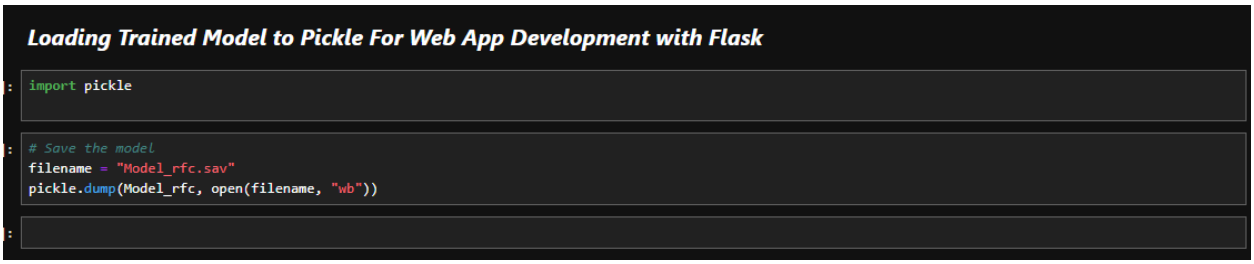
Steps to the machine learning model deployment on the credit card default dataset.

Step 1:

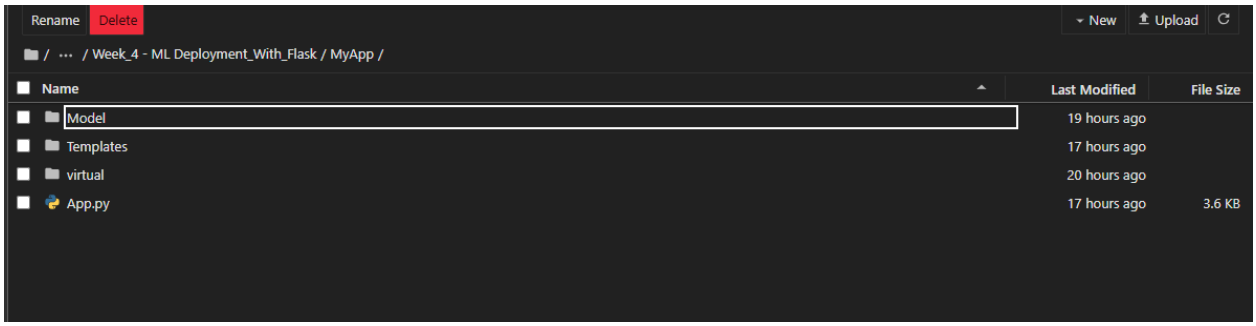
The pre-trained model was saved with the *pickle* library as *Model_rfc.sav*



Step 2:

A folder called **MyApp** was created, which contains three different folders for the model deployment

i. *Model folder*: Contains the saved model
ii. *Template folder:* Contains the index.html for building the web app
iii. *Virtual folder:* Bear all libraries to be used for the model building and deployment



Step 3:

i. The **app.py** contains the code that accepts the inputs from the user, processes them and then returns the results to the web app after a prediction is made based on the input of the user

ii. For each execution of the **App.py** file, a terminal is opened and the code: *flask run* is executed, which generates a **URL** to the web application. This **URL** address is opened on a separate browser, and the necessary inputs are fed to the web interface to get the intended result the of prediction

URL Link:

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\hp> cd "C:\Users\hp\Data Glacier Virtual Internships\Week_4 - ML Deployment_With_Flask\MyApp"
PS C:\Users\hp\Data Glacier Virtual Internships\Week_4 - ML Deployment_With_Flask\MyApp> flask run
 * Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
127.0.0.1 - - [02/Sep/2025 19:47:05] "GET / HTTP/1.1" 200 -
```

Web App Interface: