

Week4: Deployment on Flask

Data Glacier Virtual Internship

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1. Introduction

1.1 Data

The dataset I used to train the model is a csv file containing 50 pairs of randomly generated x, y values, which can be found in Week4/dataset/A.

1.2 Model

I imported the linear regression model in Scikit-learn and trained the model on the data in csv file introduced above. The model is saved to model.pkl using Pickle. This part is in model.py.

1.3 Deployment

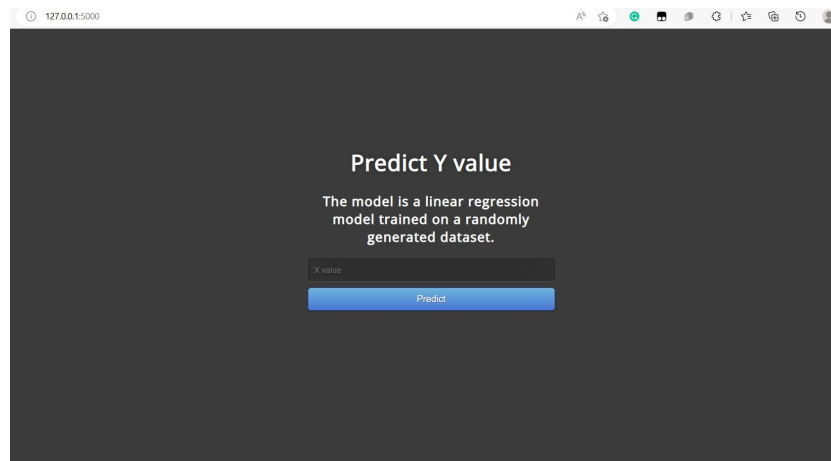
The ML model is deployed through Flask. This part is mainly implemented in app.py.

2. Snapshots

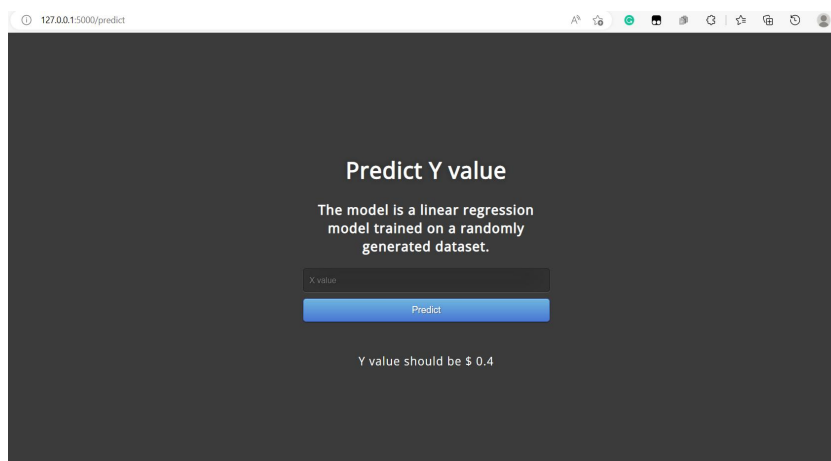
First, start running the app in command line:

```
PS C:\Users\23566\Desktop\Data_Glacier> cd Week4
PS C:\Users\23566\Desktop\Data_Glacier\Week4> python app.py
* Serving Flask app 'app'
* Debug mode: on
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
* Restarting with stat
* Debugger is active!
* Debugger PIN: 128-669-135
```

Now it is successfully running. The web page can be accessed on local host at <https://127.0.0.1:5000/>. The page is functioning like below:



By entering 1 in the input line, the model will successfully predict the result and present the result to users as below:



3. Summary

The deployment of model using Flask is successful in general as the web page can normally function to take inputs and the model can yield predictions.