

Week4: Deployment on Flask

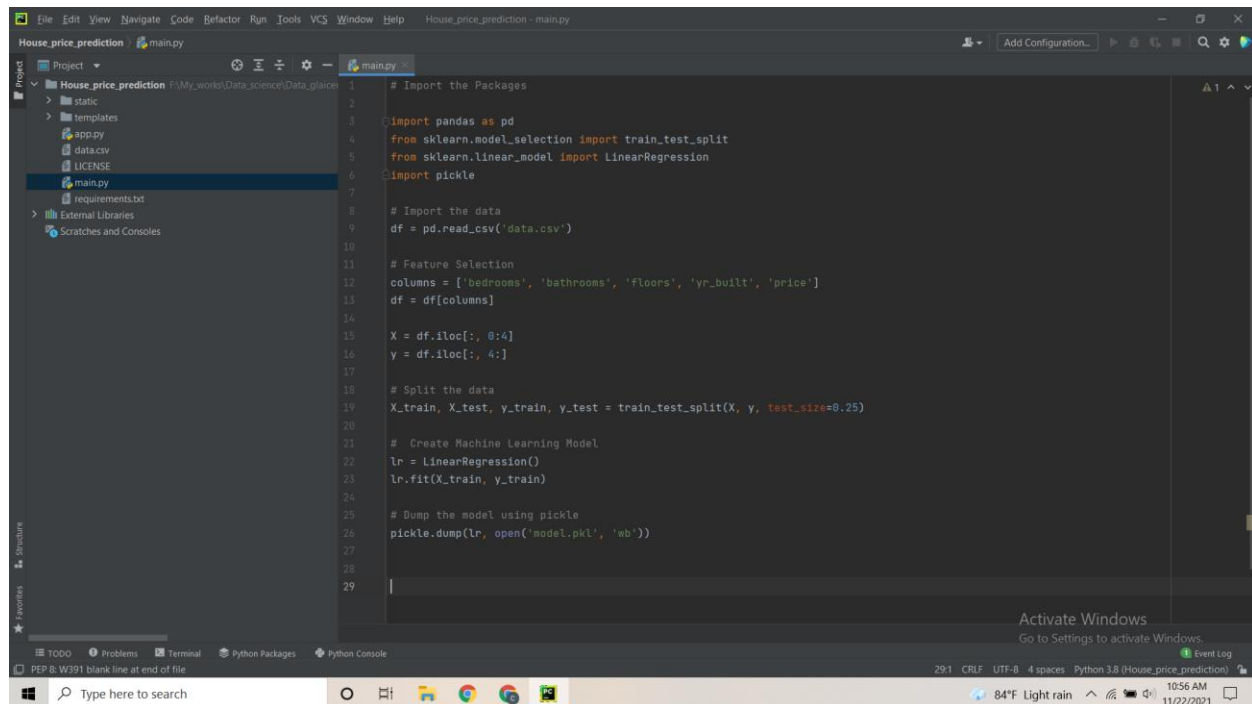
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Batch code: LISUM04

Submission date: 22/11/2021

Submitted to: Data Glacier

Step 01: “main.py” file has shown in following figure. This will create a “model.pkl” file.

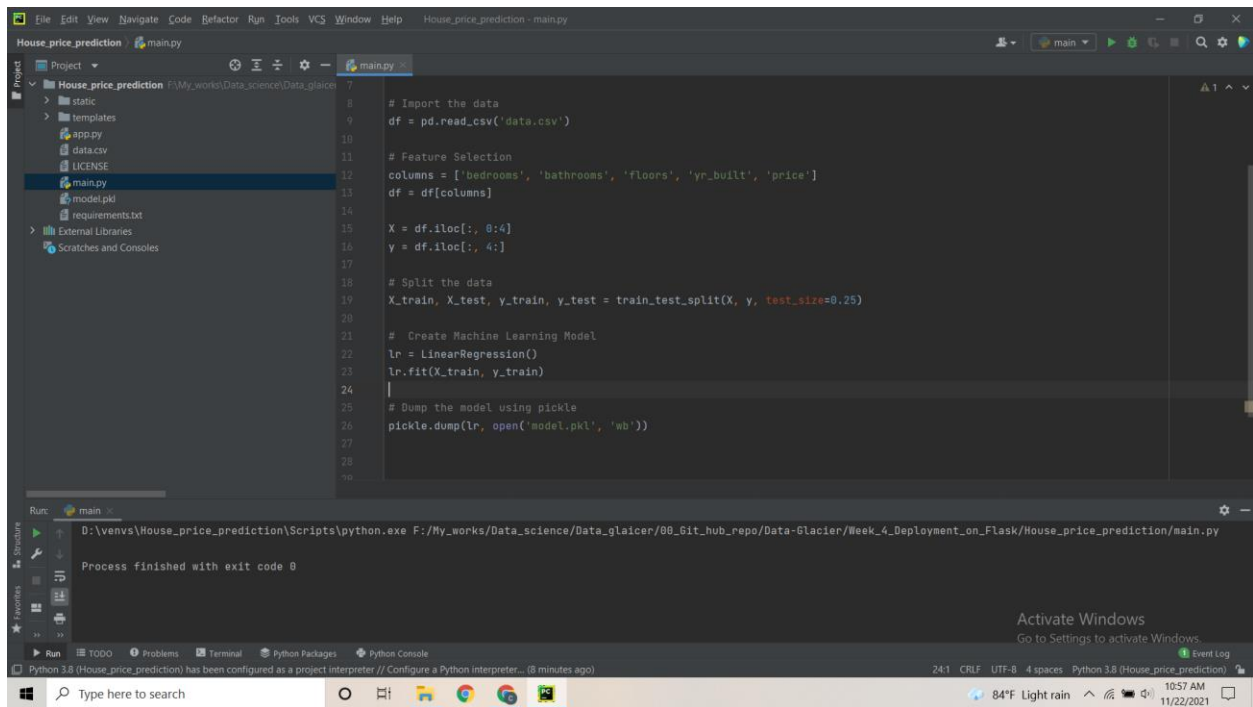


The screenshot shows a code editor window titled "House_price_prediction - main.py". The left sidebar displays a project structure for "House_price_prediction" with files: static, templates, app.py, data.csv, LICENSE, main.py, requirements.txt, External Libraries, and Scratches and Consoles. The main editor area shows the following Python code:

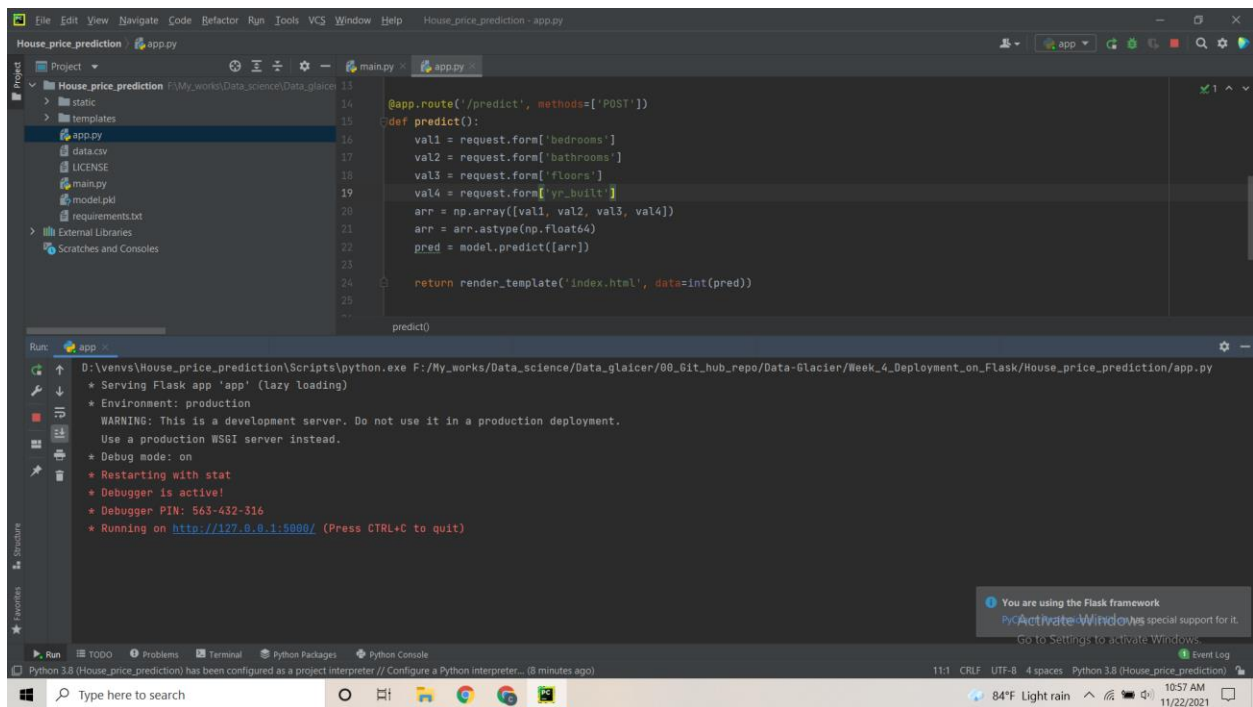
```
1 # Import the Packages
2
3 import pandas as pd
4 from sklearn.model_selection import train_test_split
5 from sklearn.linear_model import LinearRegression
6 import pickle
7
8 # Import the data
9 df = pd.read_csv('data.csv')
10
11 # Feature Selection
12 columns = ['bedrooms', 'bathrooms', 'floors', 'yr_built', 'price']
13 df = df[columns]
14
15 X = df.iloc[:, 0:4]
16 y = df.iloc[:, 4:]
17
18 # Split the data
19 X_train, X_test, y_train, y_test = train_test_split(X, y, test_size=0.25)
20
21 # Create Machine Learning Model
22 lr = LinearRegression()
23 lr.fit(X_train, y_train)
24
25 # Dump the model using pickle
26 pickle.dump(lr, open('model.pkl', 'wb'))
27
28
29
```

The bottom status bar indicates the file encoding is UTF-8, 4 spaces, Python 3.8, and the current file is "House_price_prediction". The Windows taskbar at the bottom shows the search bar, task view, and system tray with the date 11/22/2021 and time 10:56 AM.

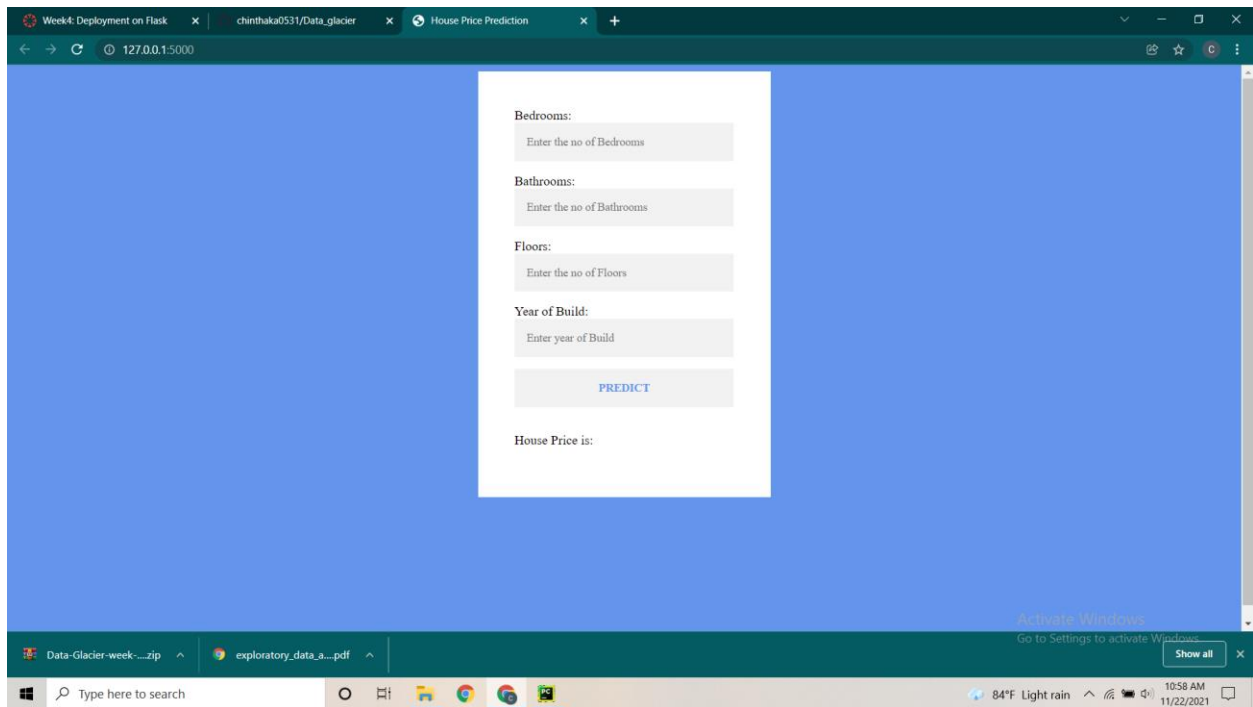
After running the main.py, It creates the model.pkl file in the working directory.



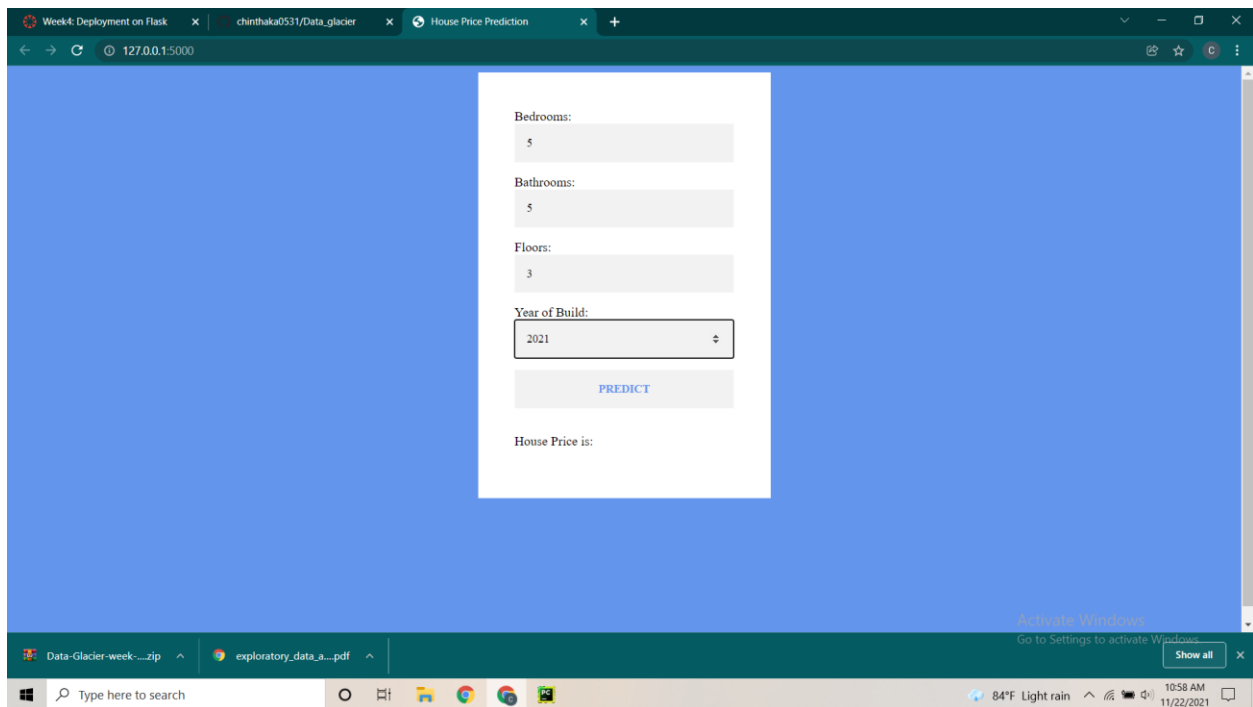
The app.py has shown in the following figure. After running it We can get the local link of running model.



The running app has shown in following figure.



Let's test it.



The output for the given data was 1314703 USD.

Week: Deployment on Flask | chinthaka0531/Data_glacier | House Price Prediction

127.0.0.1:5000/predict

Bedrooms:
Enter the no of Bedrooms

Bathrooms:
Enter the no of Bathrooms

Floors:
Enter the no of Floors

Year of Build:
Enter year of Build

PREDICT

House Price is: 1314703

Activate Windows
Go to Settings to activate Windows. [Show all](#)

Data-Glacier-week-...zip | exploratory_data_a...pdf

Type here to search

84°F Light rain 10:58 AM 11/22/2021