Week 4: Deployment on Flask

Name: Hassan Faheem

Batch Code: LISUM06

Submission Date: 23-2-2022

Submitted to: Data Glacier

1. Creating the ML Model

The model being used here is of predicting the car prices. The screenshot below shows the overview of the model:

```
dataset = pd.read_csv('car_price.csv')

dataset['cylinder'].fillna(0, inplace=True)

dataset['km'].fillna(dataset['km'].mean(), inplace=True)

X = dataset.iloc[:, :3]
y = dataset.iloc[:, -1]

# Importing ML Library |
from sklearn.linear_model import LinearRegression
regressor = LinearRegression()

#Fitting model with trainig data
regressor.fit(X, y)

# Saving model to disk
pickle.dump(regressor, open('model.pkl','wb'))

# Loading model to compare the results
model = pickle.load(open('model.pkl','rb'))
```

2. Creating the app.py file

Here the Flask class will get the name of the module as an argument

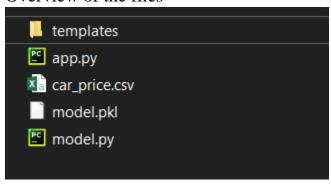
```
app = Flask(__name__)
model = pickle.load(open('model.pkl', 'rb'))
```

The function route will give the Flask app the location of the webpage to load

```
@app.route('/')
def home():
    return render_template('index.html')
```

3. Creating index.html file

4. Overview of the files



5. Deployment

To deploy & run the app, use the command python app.py in the cmd to run the flash server. Then open the browser and copy the address and paste it there in the browser. The address here is "http://127.0.0.1:5000/"

6. Viewing the App

The Snippet below shows the app in action, deployed in flask.

