# Week 5: Deployment on Heroku

Name: Hassan Faheem

Batch Code: LISUM06

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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

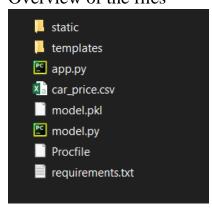
```
app = Flask(__name__)
model = pickle.load(open('model.pkl', 'rb'))
```

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

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

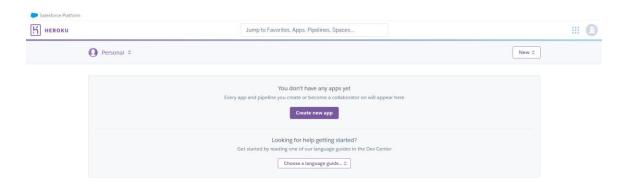
## 3. Creating index.html file

#### 4. Overview of the files

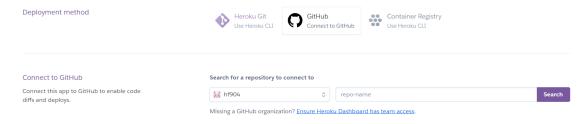


## 5. Deployment in Heroku

## Step 1: Click on the create new app button & provide a name



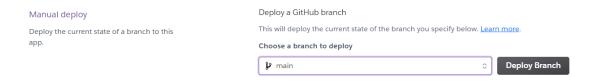
#### Step 2: Link the GitHub account to Heroku



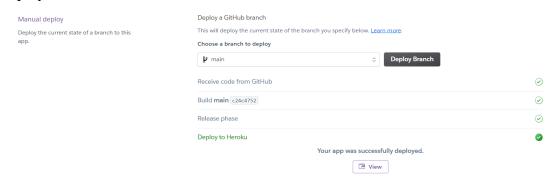
#### Step 3: Search for the repository by searching it



#### Step 4: Select the repository and click on Deploy Branch



Step 5: Wait for the deployment to complete then click on View after successful deployment confirmation



# 6. Viewing the App

