Week5: Deployment using Cloud and API

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Batch Code: LISUM27

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Submitted to: Data Glacier

Data Set up:

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

# Handle missing values
dataset['experience'].fillna(0, inplace=True)
dataset['test_score'].fillna(dataset['test_score'].mean(), inplace=True)

X = dataset.iloc[:, :3]
```

Data Training:

```
# Convert words to integer values consistently def convert_to_int(word):

word_dict = {'one':1, 'two':2, 'three':3, 'four':4, 'five':5, 'six':6, 'seven':7, 'eight':8, 'nine':9, 'ten':10, 'eleven':11, 'twelve':12, 'zero':0, 0: 0}

return word_dict[word]
X['experience'] = X['experience'].apply(lambda x : convert_to_int(x)) y = dataset.iloc[:, -1]

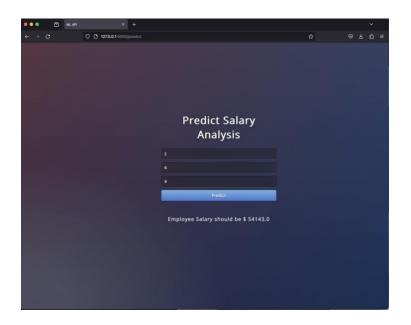
# Splitting Training and Test Set from sklearn.linear_model import LinearRegression regressor = LinearRegression()

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

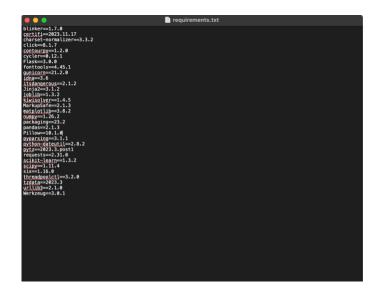
Predicting in app.py:

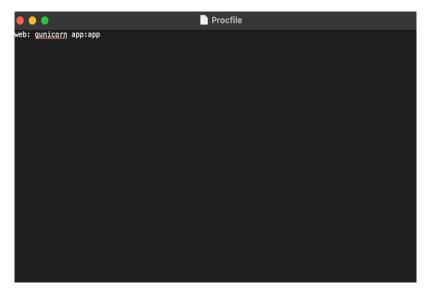
```
def predict_api():
    data = request.get_json(force=True)
features = [data['experience'], data['test_score'], data['interview_score']] prediction =
    model.predict([np.array(features)])
    output = prediction[0] return jsonify(output)
```

Deployed Model:

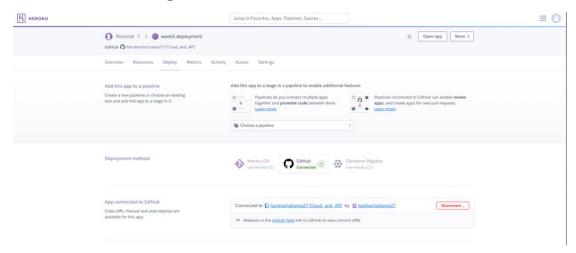


Added the requirements.txt and Procfile to the repo:

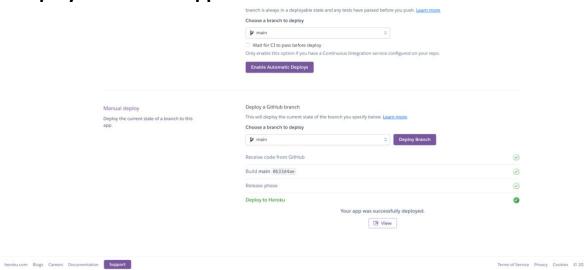




Connected the github account with Heroku:



Deployed the flask application on Heroku:



Link of the Heroku hosted app:

https://week5-deployment-dab1f2ab0b3c.herokuapp.com

Hosted app:

