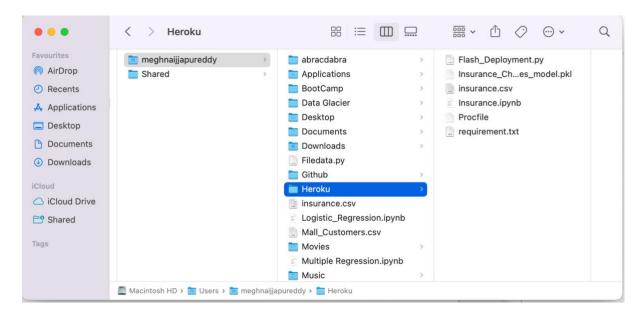
Name: Meghna Ijjapureddy

Batch Code: LISUM20 **Submission Date**: 5th May 2023 **Submitted to**: Data Glacier

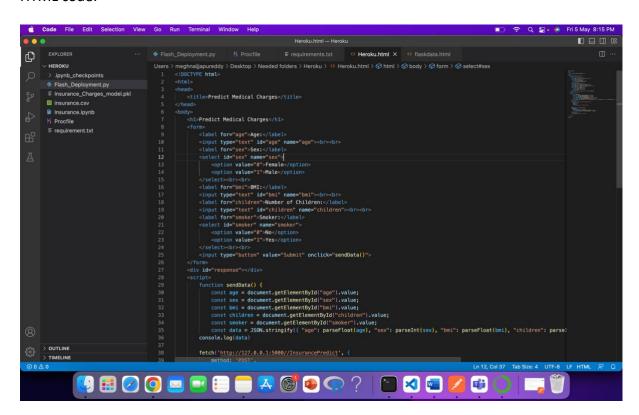
Model Saving and deploying:

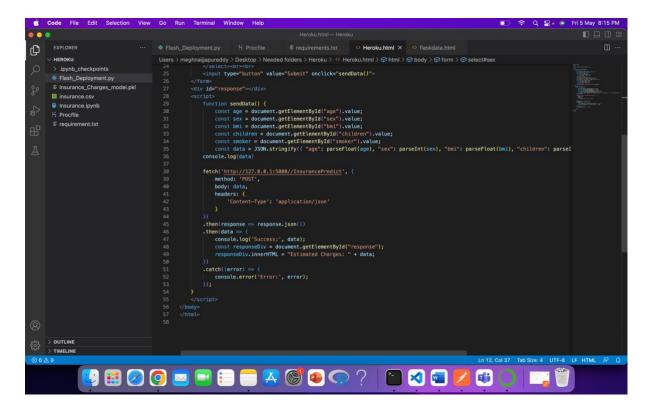
```
Model Prediction
In [18]: X = df.iloc[:,[0,1,2,3,4]]
y = df.iloc[:,6]
           y = dr.1100[;,0]
X_train, X_test, y_train, y_test = train_test_split(X,y,test_size = 0.25,random_state = 1)
           Charges_model = LinearRegression()
Charges_model.fit(X_train, y_train)
           y_predict = Charges_model.predict(X_train).reshape(-1,1)
           score = Charges model.score(X_test, y_test)
print (f"Accuracy: {score}")
           Accuracy: 0.7314978720846357
In [20]: import pickle
            pickle.dump(Charges_model, open("Insurance_Charges_model.pkl","wb"))
            Charges_model = pickle.load(open("Insurance_Charges_model.pkl","rb"))
In [22]: print (Charges_model.predict([[19, 0, 27.900, 0, 1]]))
            /Users/meghnaijjapureddy/opt/anaconda3/lib/python3.9/site-packages/sklearn/base.py:450: UserWarning: X does not have valid feature names, but LinearRegression was fitted with feature names
             warnings.warn(
In [23]: print (Charges_model.predict([[18, 1, 33.770, 1, 0]]))
           [3829.52048233]
           /Users/meghnaijjapureddy/opt/anaconda3/lib/python3.9/site-packages/sklearn/base.py:450: UserWarning: X does not have valid feature names, but LinearRegression was fitted with feature names
            warnings.warn(
```



Flask Deployment

HTML code:





HTML web page:





Heroku deployment:

