# Flask Deployment

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Report date: 29/06/2022
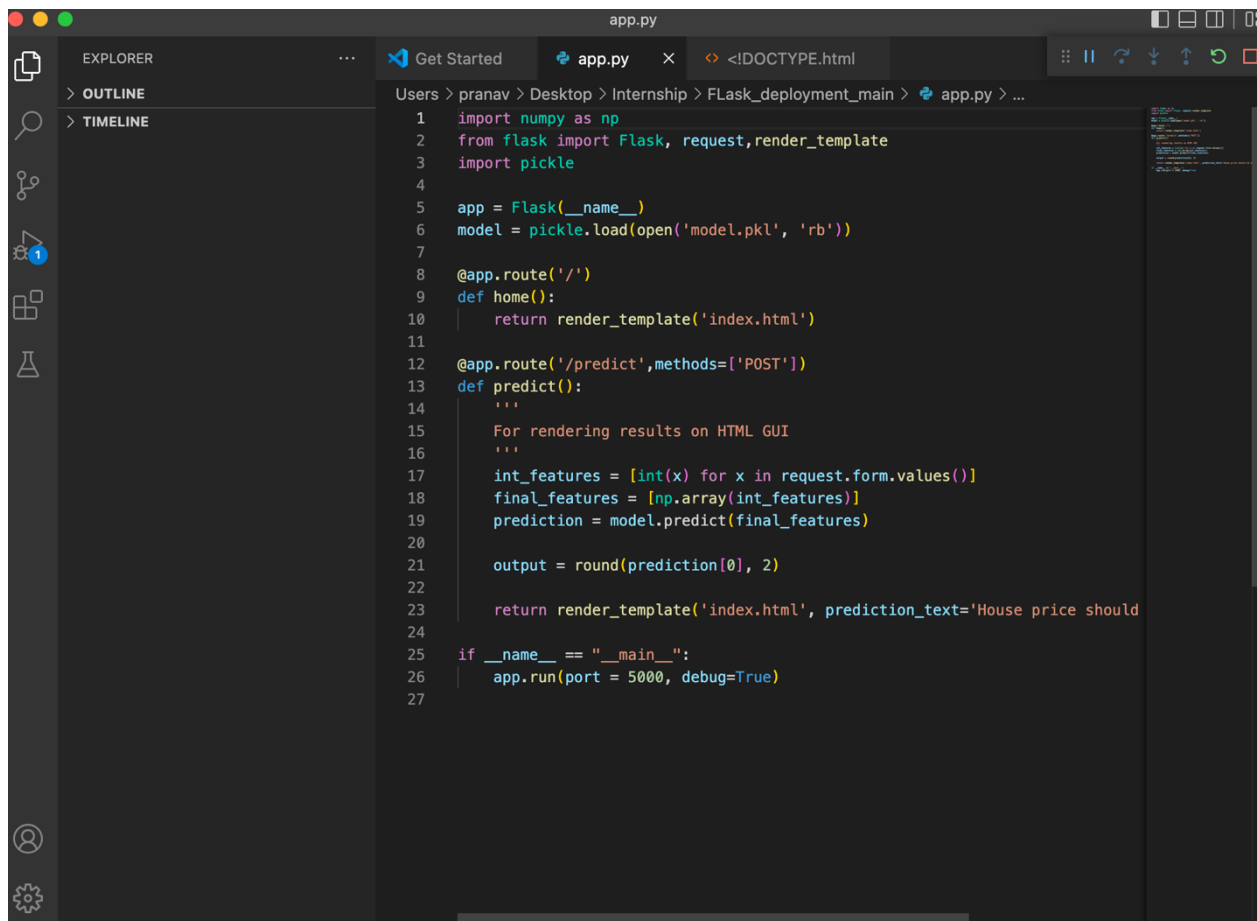Internship Batch: LISUM 10
Version:<1.0>
Data intake by: Pranav Walia
Data intake reviewer: Pranav Walia
Data storage location: github - https://github.com/pranav611/DataSets.git

```python
import numpy as np
from flask import Flask, request,render_template
import pickle

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

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

@app.route('/predict',methods=['POST'])
def predict():
    '''
    For rendering results on HTML GUI
    '''
    int_features = [int(x) for x in request.form.values()]
    final_features = [np.array(int_features)]
    prediction = model.predict(final_features)

    output = round(prediction[0], 2)

    return render_template('index.html', prediction_text='House price should

if __name__ == "__main__":
    app.run(port = 5000, debug=True)
```

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```python
1   # Importing the libraries
2   import numpy as np
3   import pandas as pd
4   import pickle
5
6   dataset = pd.read_csv('price.csv')
7
8   dataset['bed_room'].fillna(0, inplace=True)
9
10  dataset['area'].fillna(dataset['area'].mean(), inplace=True)
11
12  X = dataset.iloc[:, :3]
13
14  #Converting words to integer values
15  def convert_to_int(word):
16      word_dict = {'one':1, 'two':2, 'three':3, 'four':4, 'five':5, 'six':6, 's
17                   'nine':9, 'ten':10, 'eleven':11, 'twelve':12, 'zero':0, 0: 0}
18      return word_dict[word]
19
20  X['bed_room'] = X['bed_room'].apply(lambda x : convert_to_int(x))
21
22  y = dataset.iloc[:, -1]
23
24  from sklearn.linear_model import LinearRegression
25  regressor = LinearRegression()
26
27  #Fitting model with trainig data
28  regressor.fit(X, y)
29
30  # Saving model to disk
31  pickle.dump(regressor, open('model.pkl','wb'))
32
33  # Loading model to compare the results
34  model = pickle.load(open('model.pkl','rb'))
35  print(model.predict([[2, 2200, 5]]))
```

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```html
1   <!DOCTYPE html>
2   <html >
3   <head>
4     <meta charset="UTF-8">
5     <title>ML API</title>
6     <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='styleshe
7   <link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet' t
8   <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet
9   <link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300'
10  <link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }
11
12  </head>
13
14  <body>
15   <div class="login">
16      <h1>Predict House Price</h1>
17
18       <!-- Main Input For Receiving Query to our ML -->
19      <form action="{{ url_for('predict')}}"method="post">
20          <input type="text" name="no_of_rooms" placeholder="Number of Rooms" r
21          <input type="text" name="area" placeholder="Area (in square feet)" re
22          <input type="text" name="house_age" placeholder="House Age" required=
23
24          <button type="submit" class="btn btn-primary btn-block btn-large">Pre
25      </form>
26
27     <br>
28     <br>
29     {{ prediction_text }}
30
31   </div>
32   <img src="/static/images/Original.svg" style="width: 400px;position: absolut
33
34  </body>
35  </html>
36
```

# Predict House Price

Income

House Age

Number of Rooms

Number of Bedrooms

Area Population

Predict