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Assignment: Week 4 Model Deployment using Flask

Batch Code

Submission Date: 11/29/2023

Submitted to: <http://127.0.0.1:5000/predict>

The image shows a Jupyter Notebook environment and its web interface. The top part is a screenshot of the Jupyter Notebook interface, displaying a Python script for a Flask web application. The script imports necessary libraries (numpy, flask, pickle) and defines a Flask app with two routes: a home page and a prediction endpoint. The prediction endpoint takes form data (Number of Rooms, Area, House Age) and uses a pre-trained model to predict the house price. The bottom part is a screenshot of the web application running on a local server at 127.0.0.1:5000/predict. The web interface has a dark theme and is titled "Predict House Price". It features three input fields for "Number of Rooms", "Area (in square feet)", and "House Age", followed by a blue "Predict" button. Below the button, the output is displayed: "House price should be \$ 119852.15". At the bottom, there is a logo for "Data Glacier" with the tagline "Your Deep Learning Partner".

```
1 import numpy as np
2 from flask import Flask, request, render_template
3 import pickle
4
5 app = Flask(__name__)
6 model = pickle.load(open('model.pkl', 'rb'))
7
8 @app.route('/')
9 def home():
10     return render_template('index.html')
11
12 @app.route('/predict', methods=['POST'])
13 def predict():
14     """
15     For rendering results on HTML GUI
16     """
17     int_features = [int(x) for x in request.form.values()]
18     final_features = [np.array(int_features)]
19     prediction = model.predict(final_features)
20
21     output = round(prediction[0], 2)
22
23     return render_template('index.html', prediction_text='House price should be $ {}'.format(output))
24
25 if __name__ == "__main__":
26     app.run(debug=True)
```

Predict House Price


Number of Rooms

Area (in square feet)

House Age

Predict

House price should be \$ 119852.15

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