

Practical-3

Generation of Reproducible and Interactive ML Project.

Task 1: Create the Github repository for the house rate prediction project created in practical 2.

House_Rate_Prediction Public

Pin Unwatch 1

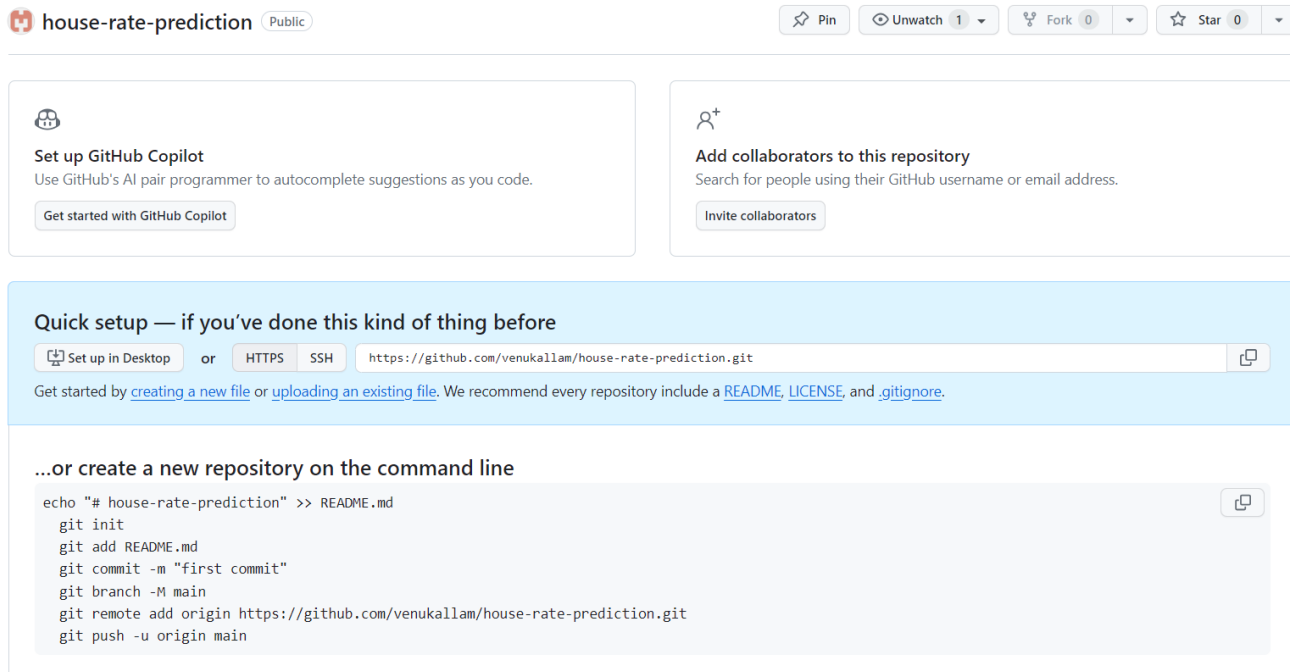
main 1 branch 0 tags

Go to file Add file <> Code

File Name	Action	Time
venukallam Add files via upload		4471926 19 hours ago 4 commits
20012531010 ML OPS P1 venugopal....	Add files via upload	19 hours ago
20012531010 ML OPS P2 Venugopal....	Add files via upload	19 hours ago
20012531010 ML OPS P4 Venugopal....	Add files via upload	19 hours ago
20012531010 ML OPS P5 Venugopal....	Add files via upload	19 hours ago
20012531010 MLOPS P10 Venugopal...	Add files via upload	19 hours ago
20012531010 MLOPS P6 Venugopalp...	Add files via upload	19 hours ago
20012531010 MLOPS P7 Venugopal...	Add files via upload	19 hours ago
20012531010 MLOPS P8 Venugopal....	Add files via upload	19 hours ago
20012531010 MLOPS P9 Venugopal....	Add files via upload	19 hours ago
Housing.csv	Add files via upload	4 months ago
ML_ops_pr2.ipynb	Add files via upload	4 months ago
README.md	Create README.md	4 months ago
X_test.npy	Add files via upload	4 months ago

Task 2: Integrate your repository with the binder to make your project interactive. (Hint: refer to the following link for the steps: (<https://mybinder.org/>))

4)



The screenshot shows the GitHub repository page for 'house-rate-prediction'. At the top, there are buttons for 'Pin', 'Unwatch' (1), 'Fork' (0), and 'Star' (0). Below this, there are two cards: 'Set up GitHub Copilot' and 'Add collaborators to this repository'. A light blue banner contains a 'Quick setup' section with instructions for setting up on a desktop or via HTTPS/SSSH, and a '...or create a new repository on the command line' section with a code block.

house-rate-prediction Public

Set up GitHub Copilot
Use GitHub's AI pair programmer to autocomplete suggestions as you code.
Get started with GitHub Copilot

Add collaborators to this repository
Search for people using their GitHub username or email address.
Invite collaborators

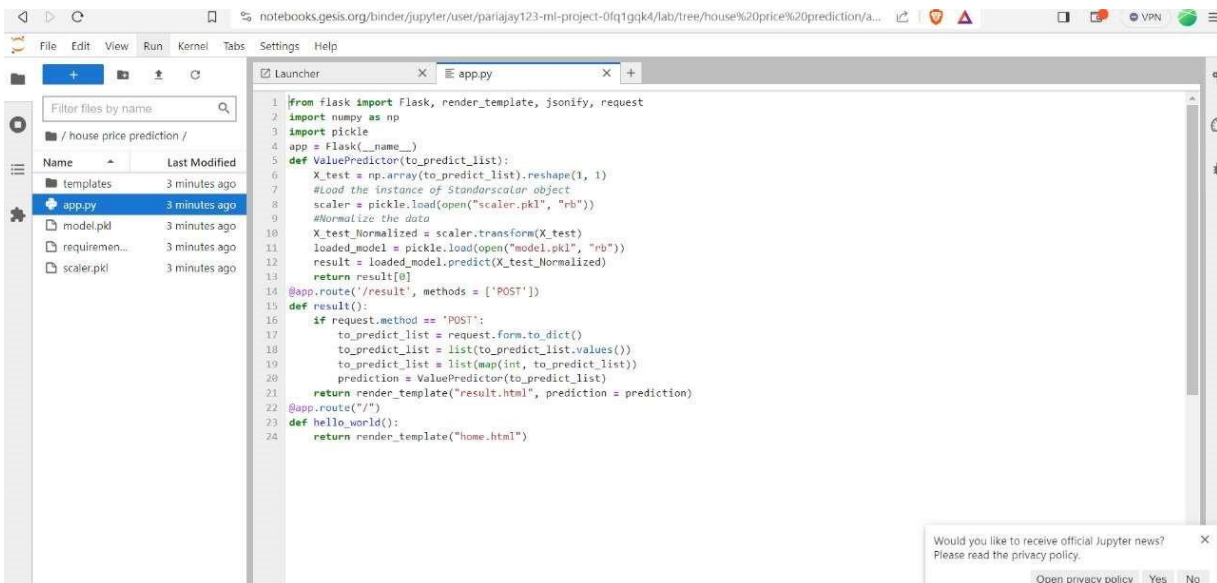
Quick setup — if you've done this kind of thing before

Set up in Desktop or HTTPS SSSH `https://github.com/venukallam/house-rate-prediction.git`

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# house-rate-prediction" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/venukallam/house-rate-prediction.git
git push -u origin main
```



The screenshot shows a JupyterLab interface with a file browser on the left and a code editor in the center. The file browser shows a directory 'house price prediction /' with files 'templates', 'app.py', 'model.pkl', 'requiremen...', and 'scaler.pkl'. The code editor shows the content of 'app.py', which is a Flask application for house price prediction.

```
1 from flask import Flask, render_template, jsonify, request
2 import numpy as np
3 import pickle
4 app = Flask(__name__)
5 def ValuePredictor(to_predict_list):
6     X_test = np.array(to_predict_list).reshape(1, 1)
7     #Load the instance of StandardScaler object
8     scaler = pickle.load(open("scaler.pkl", "rb"))
9     #Normalize the data
10    X_test_Normalized = scaler.transform(X_test)
11    loaded_model = pickle.load(open("model.pkl", "rb"))
12    result = loaded_model.predict(X_test_Normalized)
13    return result[0]
14 @app.route('/result', methods = ['POST'])
15 def result():
16     if request.method == 'POST':
17         to_predict_list = request.form.to_dict()
18         to_predict_list = list(to_predict_list.values())
19         to_predict_list = list(map(int, to_predict_list))
20         prediction = ValuePredictor(to_predict_list)
21         return render_template("result.html", prediction = prediction)
22 @app.route("/")
23 def hello_world():
24     return render_template("home.html")
```

Would you like to receive official Jupyter news?
Please read the privacy policy.
Open privacy policy Yes No