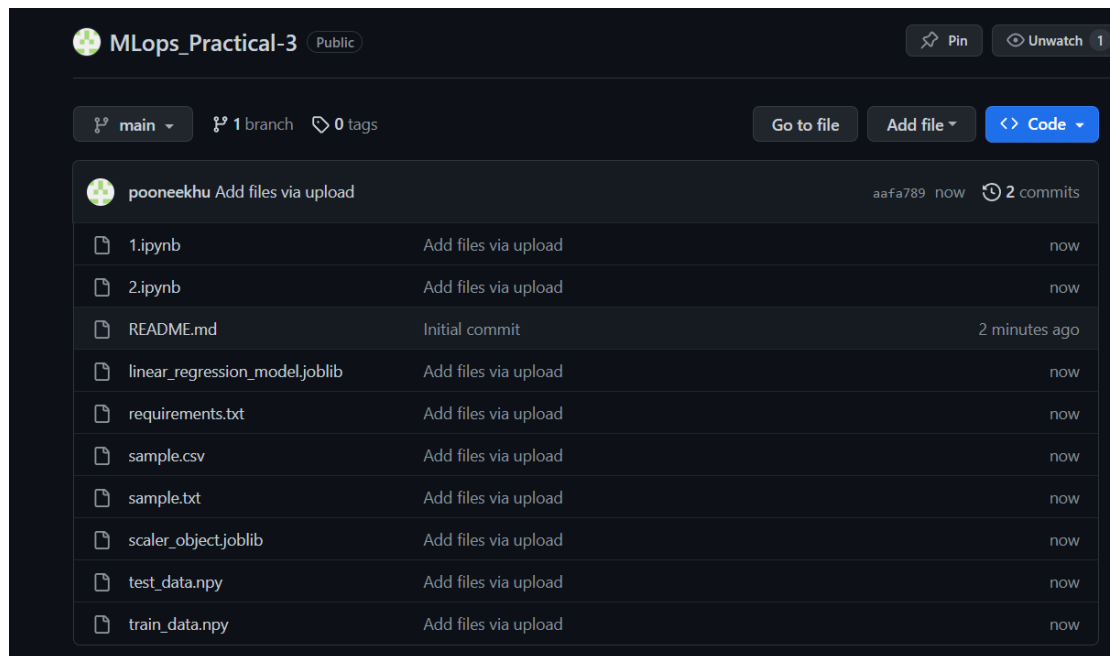


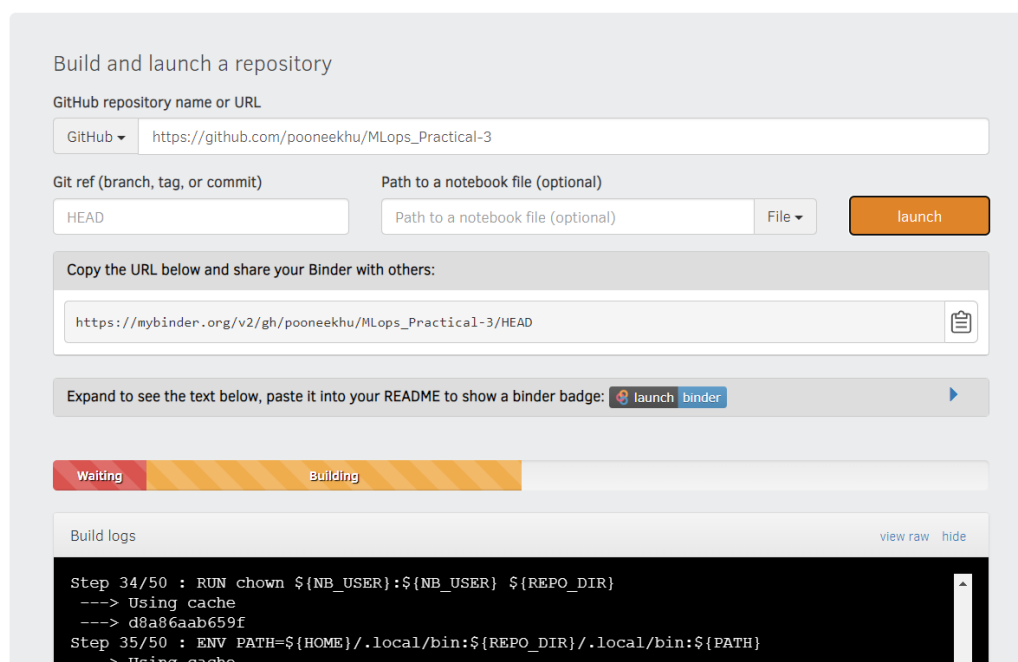
Practical-3

AIM: Generation of Reproducible and Interactive ML Project.

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



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/>))



Launcher

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sample.csv	2 minutes ago
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scaler_obje...	2 minutes ago
test_data.npy	2 minutes ago
train_data.n...	2 minutes ago

Notebook

Python 3 (ipykernel)

Console

Python 3 (ipykernel)

2.ipynb

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sample.csv	2 minutes ago
sample.txt	2 minutes ago
scaler_obje...	2 minutes ago
test_data.npy	2 minutes ago
train_data.n...	2 minutes ago

```
[6]: import numpy as np
      from sklearn.preprocessing import StandardScaler
      import joblib

      # Load the data from sample.csv using np.genfromtxt
      data = np.genfromtxt('sample.csv', delimiter=',')
      # Load the data from Sample.txt
      # data = np.loadtxt('sample.csv')

      # Create a StandardScaler object and fit_transform the data
      scaler = StandardScaler()
      scaled_data = scaler.fit_transform(data)

      # Store the scaler object for reproducibility
      joblib.dump(scaler, 'scaler_object.joblib')

      # Now scaled_data contains the normalized dataset

[6]: ['scaler_object.joblib']

[7]: from sklearn.model_selection import train_test_split

      # Split the data into training and testing sets
      train_data, test_data = train_test_split(scaled_data, test_size=0.2, random_state=42)

      # train_data and test_data now contain the training and testing datasets
```