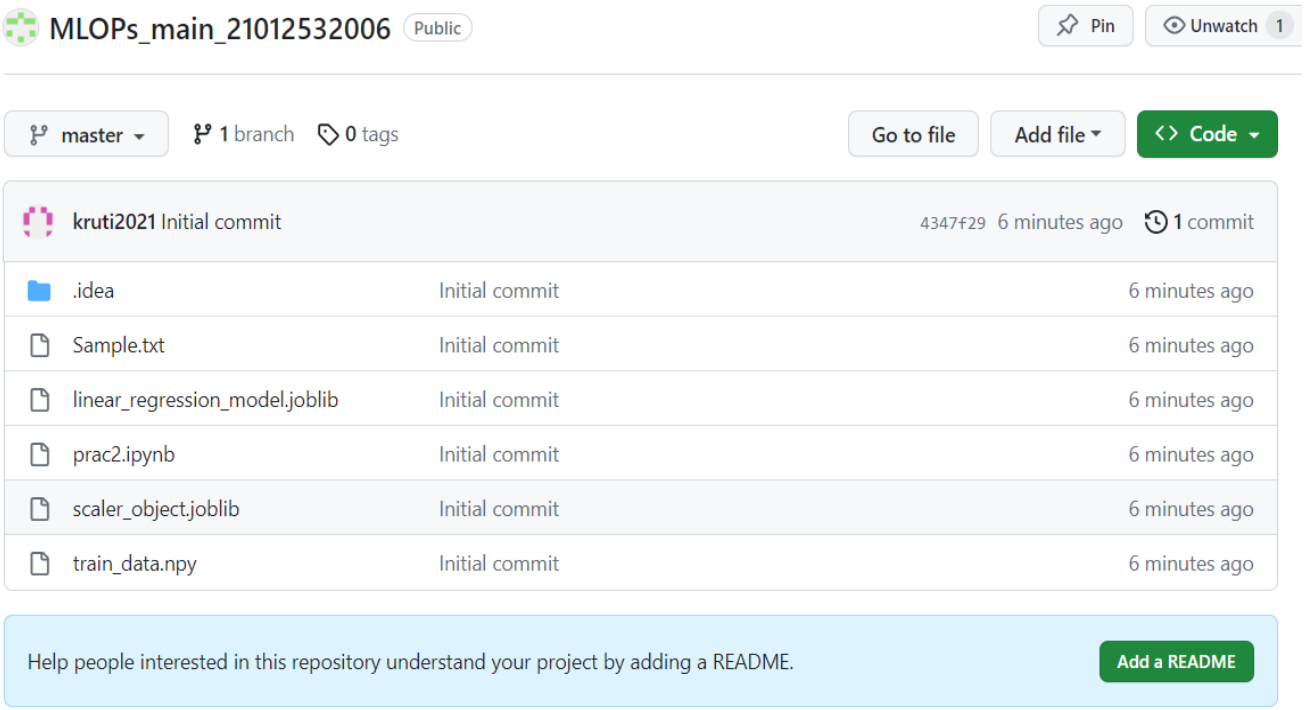
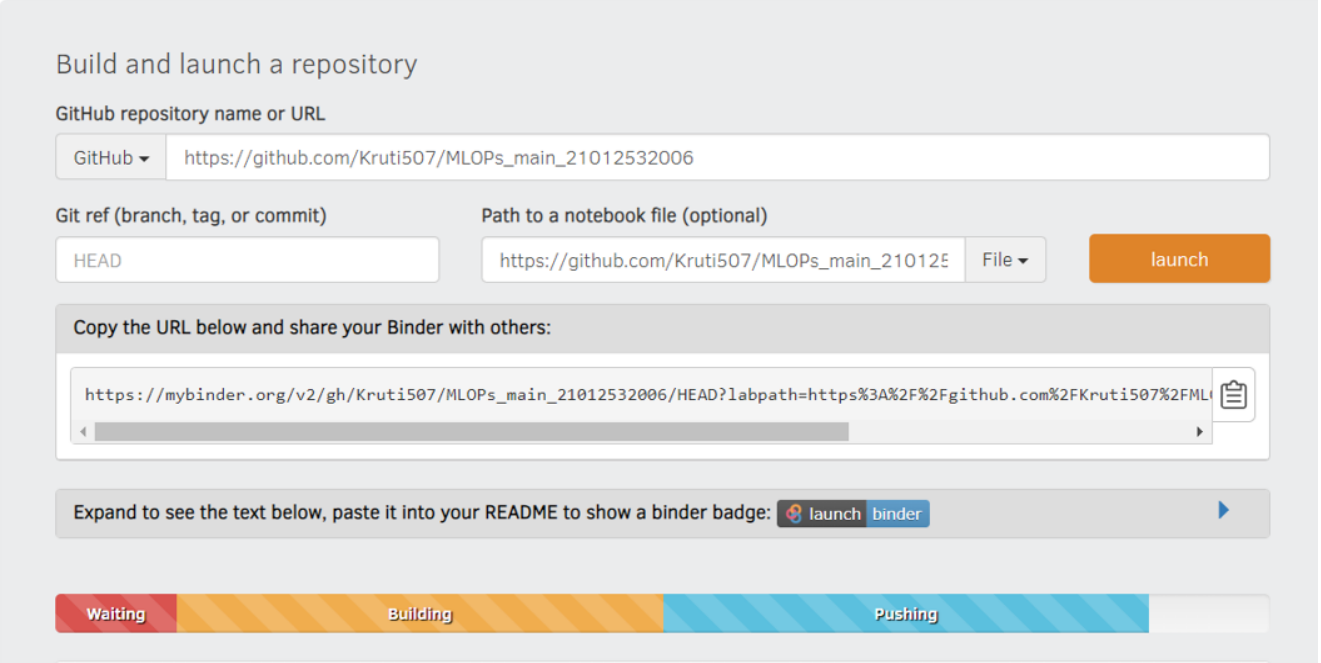
# Practical-3

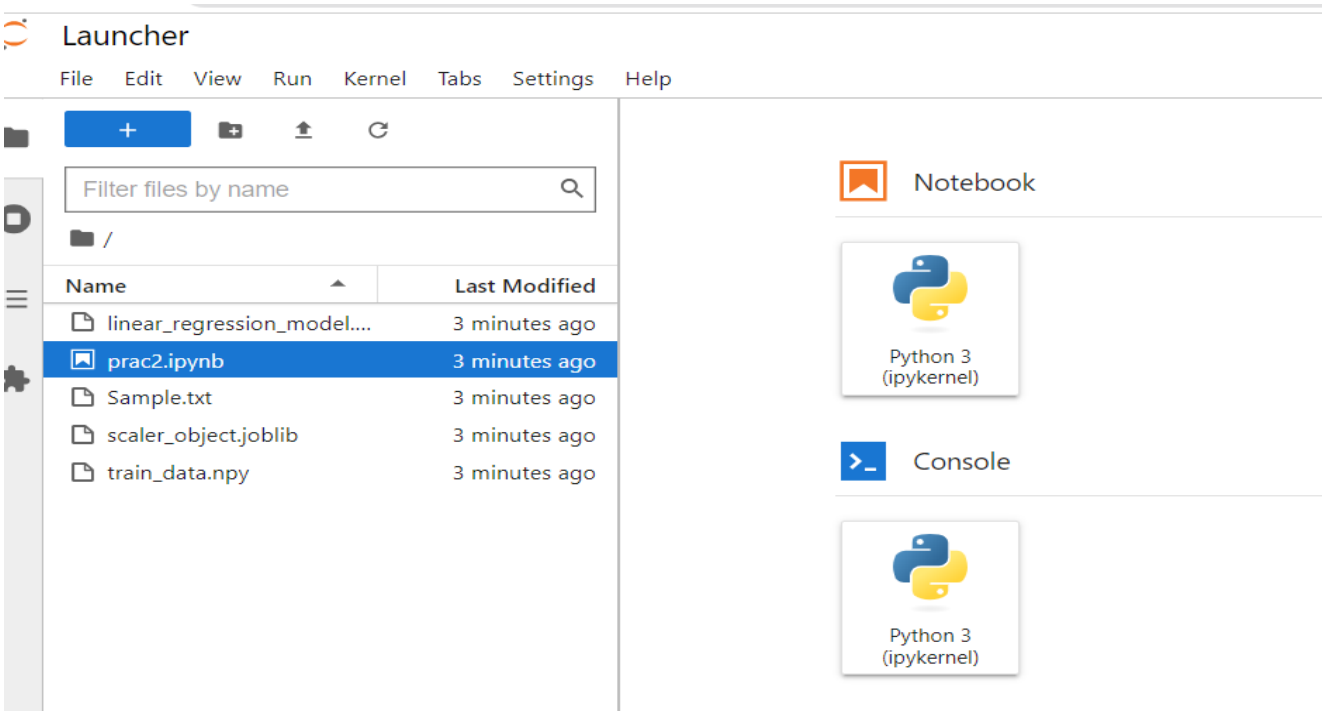
# Generation of Reproducible and Interactive ML Project.

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




**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/](https://mybinder.org/))




Launcher
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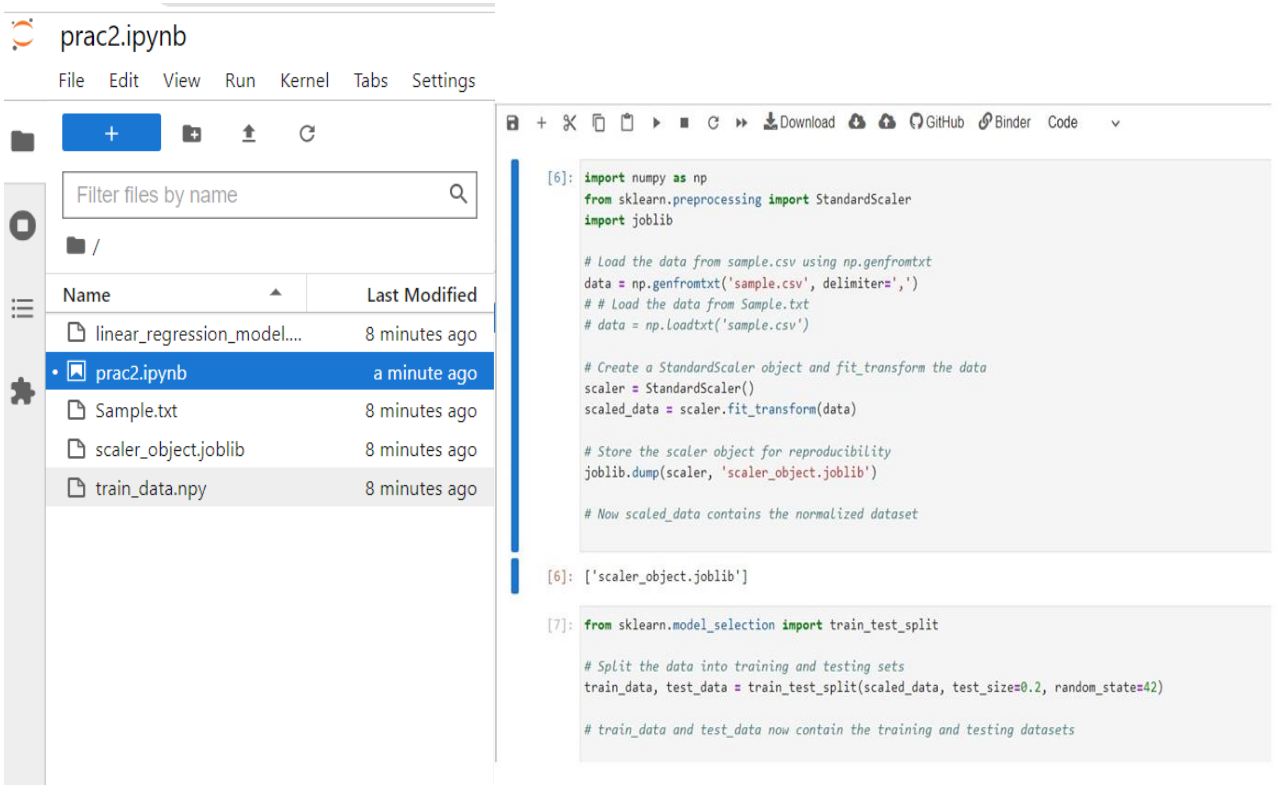
Last Modified
linear_regression_model....
3 minutes ago
prac2.ipynb
3 minutes ago
Sample.txt
3 minutes ago
scaler_object.joblib
3 minutes ago
train_data.npy
3 minutes ago
Notebook
Python 3 (ipykernel)
Console
Python 3 (ipykernel)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linear_regression_model.... 8 minutes ago
prac2.ipynb a minute ago
Sample.txt 8 minutes ago
scaler_object.joblib 8 minutes ago
train_data.npy 8 minutes ago
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Binder
Code
[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