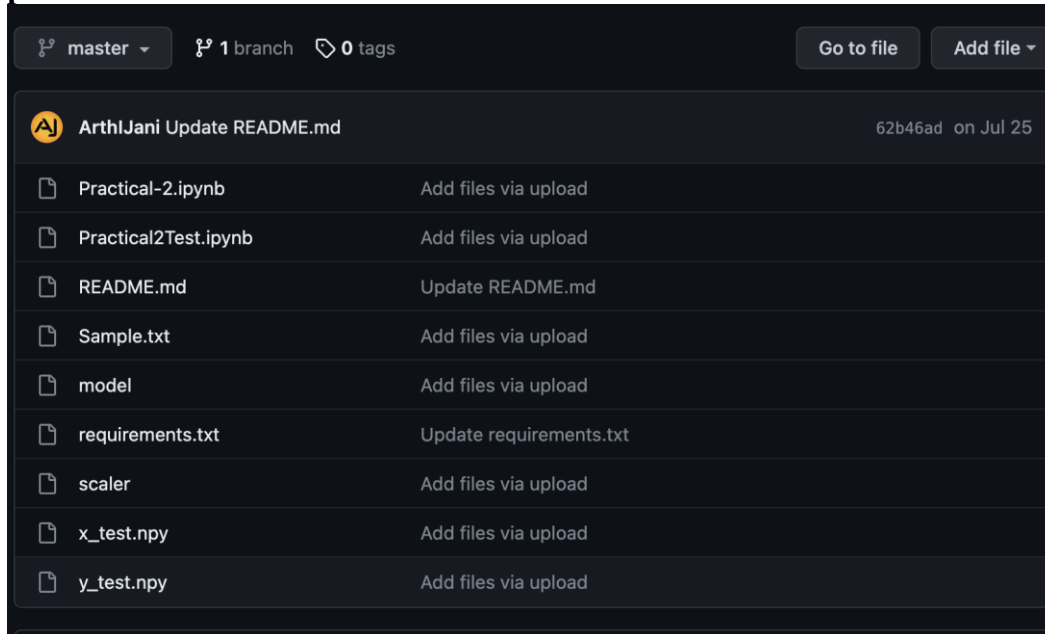


Practical-3

AIM : Generation of Reproducible and Interactive ML Project

Task 1: Create the Github repository for the house rate prediction project created in practical2



Task 2: Integrate your repository with the binder to make your project interactive. (Hint: refer to the following link for the steps:

Build and launch a repository

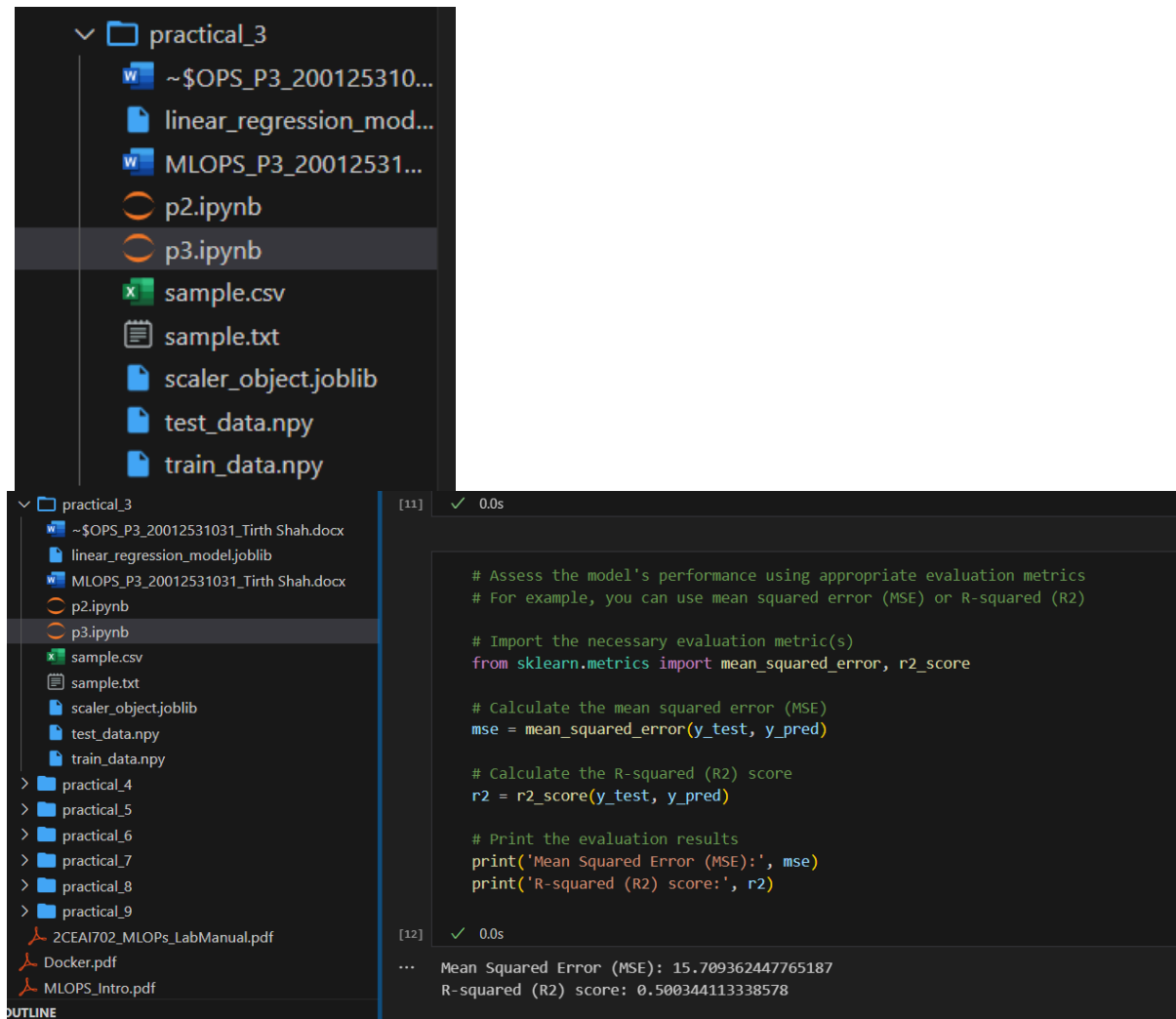
GitHub repository name or URL

GitHub

Git ref (branch, tag, or commit) Path to a notebook file (optional)

Copy the URL below and share your Binder with others:

Expand to see the text below, paste it into your README to show a binder badge:



The screenshot displays a JupyterLab environment. On the left, a file explorer shows a directory named 'practical_3' with the following files: '~\$OPS_P3_200125310...', 'linear_regression_mod...', 'MLOPS_P3_20012531...', 'p2.ipynb', 'p3.ipynb', 'sample.csv', 'sample.txt', 'scaler_object.joblib', 'test_data.npy', and 'train_data.npy'. Below this, a sidebar lists other directories and files: 'practical_4', 'practical_5', 'practical_6', 'practical_7', 'practical_8', 'practical_9', '2CEAI702_MLOPs_LabManual.pdf', 'Docker.pdf', and 'MLOPS_Intro.pdf'. The main area shows a Jupyter notebook cell with the following code:

```
[11] ✓ 0.0s

# Assess the model's performance using appropriate evaluation metrics
# For example, you can use mean squared error (MSE) or R-squared (R2)

# Import the necessary evaluation metric(s)
from sklearn.metrics import mean_squared_error, r2_score

# Calculate the mean squared error (MSE)
mse = mean_squared_error(y_test, y_pred)

# Calculate the R-squared (R2) score
r2 = r2_score(y_test, y_pred)

# Print the evaluation results
print('Mean Squared Error (MSE):', mse)
print('R-squared (R2) score:', r2)
```

The output of the cell is shown below the code:

```
[12] ✓ 0.0s

... Mean Squared Error (MSE): 15.709362447765187
R-squared (R2) score: 0.500344113338578
```