Practical-3

AIM : Generation of Reproducible and Interactive ML Project

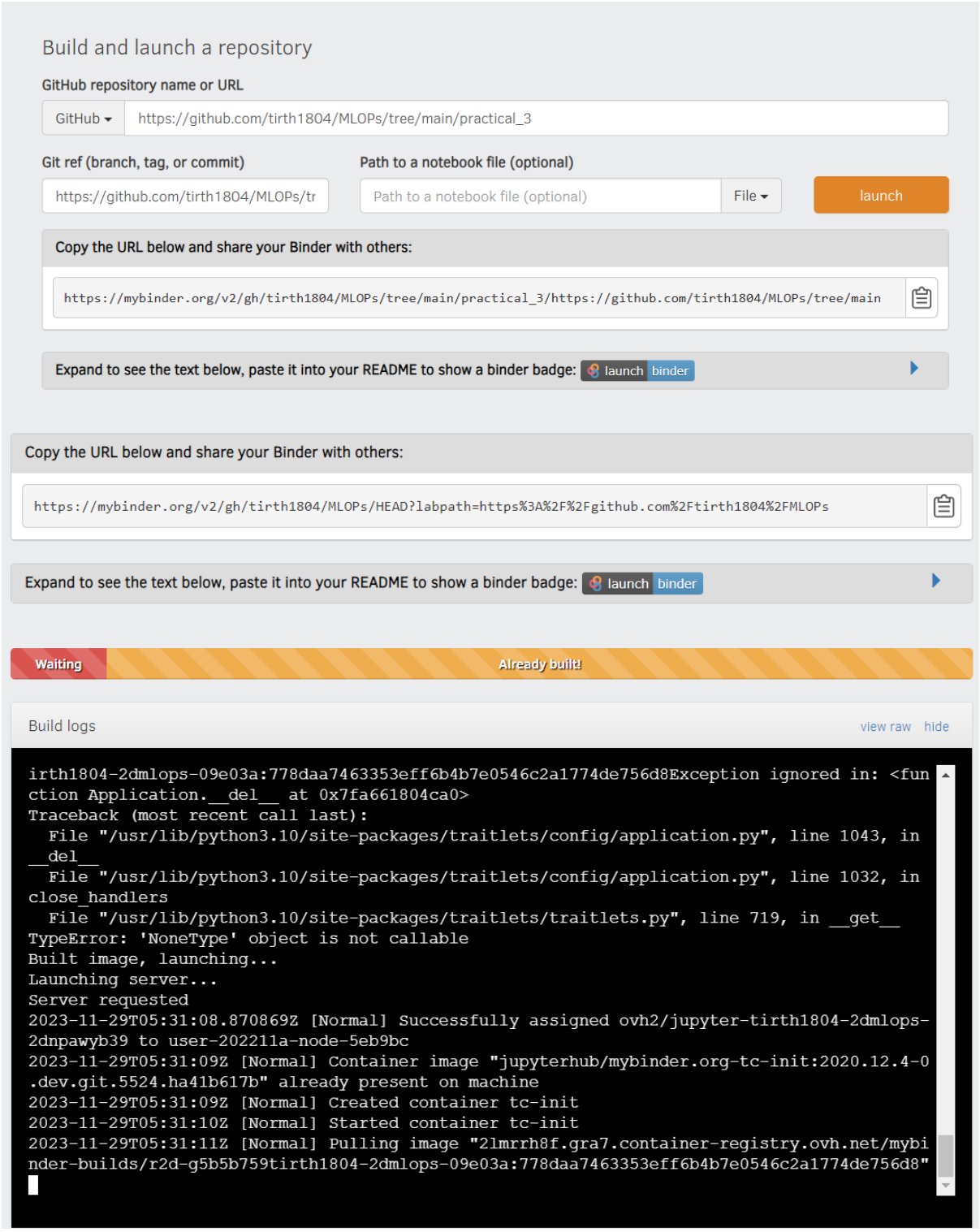
Task 1: Create the Github repository for the house rate prediction project created in practical2

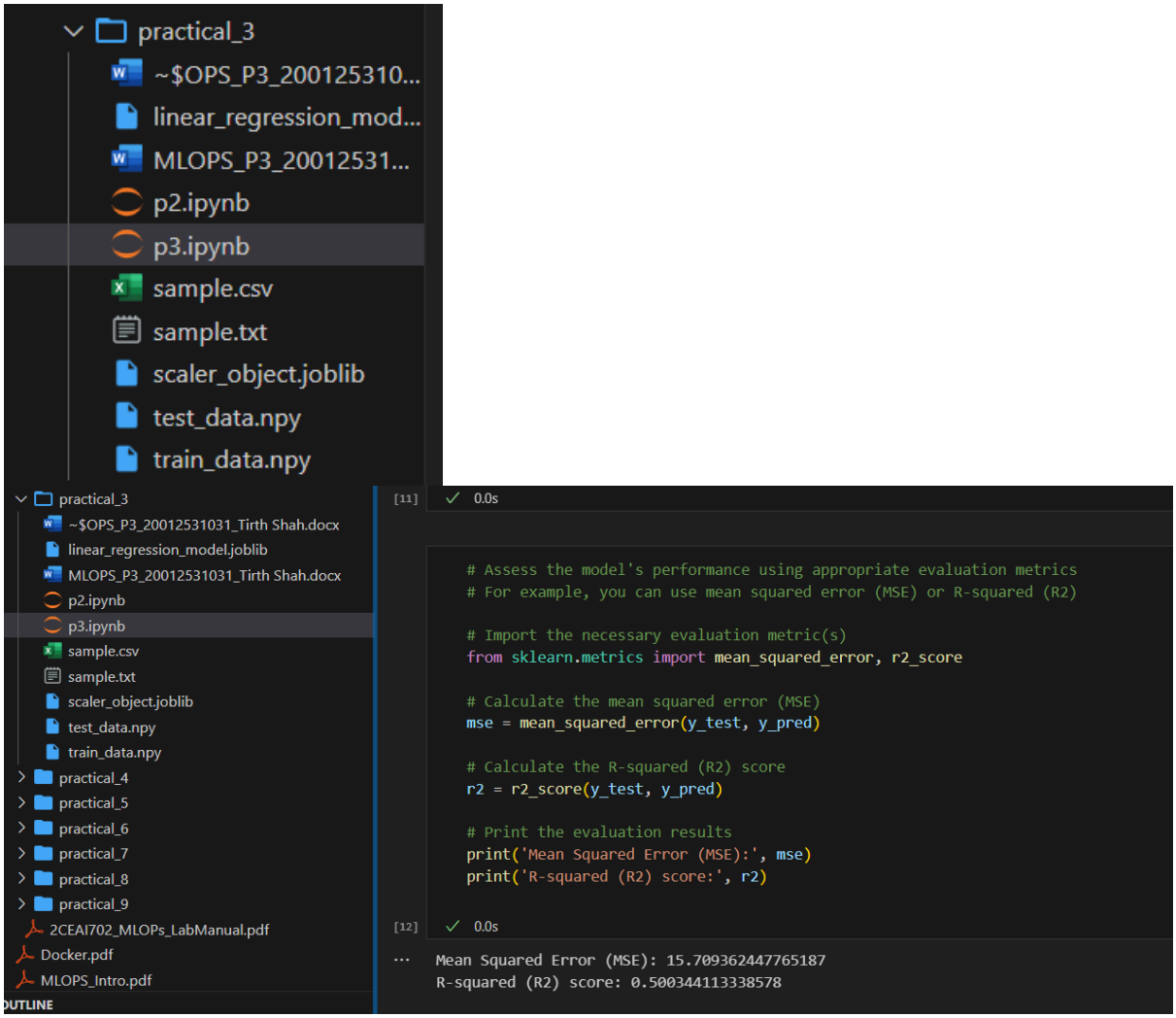
MLOPs / practical_2 /

tirth1804 Add files via upload

Name	Last commit message
..	
MLOPS_P2_20012531031_Tirth Shah.docx	Add files via upload
MLOPS_P2_20012531031_Tirth Shah.pdf	Add files via upload
linear_regression_model.joblib	Add files via upload
p2.ipynb	Add files via upload
sample.csv	Add files via upload
sample.txt	Add files via upload
scaler_object.joblib	Add files via upload
test_data.npy	Add files via upload
train_data.npy	Add files via upload

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
https://github.com/tirth1804/MLOPs/tree/main/practical_3
Git ref (branch, tag, or commit)
https://github.com/tirth1804/MLOPs/tr
Path to a notebook file (optional)
Path to a notebook file (optional)
File
launch
Copy the URL below and share your Binder with others:
https://mybinder.org/v2/gh/tirth1804/MLOPs/tree/main/practical_3/https://github.com/tirth1804/MLOPs/tree/main
Expand to see the text below, paste it into your README to show a binder badge:
launch binder
Copy the URL below and share your Binder with others:
https://mybinder.org/v2/gh/tirth1804/MLOPs/HEAD?labpath=https%3A%2F%2Fgithub.com%2Ftirth1804%2FMLOPs
Expand to see the text below, paste it into your README to show a binder badge:
launch binder
Waiting
Already built!
Build logs
view raw
hide
irth1804-2dmlops-09e03a:778daa7463353eff6b4b7e0546c2a1774de756d8Exception ignored in: <fun
ction Application.__del__ at 0x7fa661804ca0>
Traceback (most recent call last):
File "/usr/lib/python3.10/site-packages/traitlets/config/application.py", line 1043, in
__del__
File "/usr/lib/python3.10/site-packages/traitlets/config/application.py", line 1032, in
close_handlers
File "/usr/lib/python3.10/site-packages/traitlets/traitlets.py", line 719, in __get__
TypeError: 'NoneType' object is not callable
Built image, launching...
Launching server...
Server requested
2023-11-29T05:31:08.870869Z [Normal] Successfully assigned ovh2/jupyter-tirth1804-2dmlops-
2dnpawyb39 to user-202211a-node-5eb9bc
2023-11-29T05:31:09Z [Normal] Container image "jupyterhub/mybinder.org-tc-init:2020.12.4-0
.dev.git.5524.ha41b617b" already present on machine
2023-11-29T05:31:09Z [Normal] Created container tc-init
2023-11-29T05:31:10Z [Normal] Started container tc-init
2023-11-29T05:31:11Z [Normal] Pulling image "2lmrrh8f.gra7.container-registry.ovh.net/mybi
nder-builds/r2d-g5b5b759tirth1804-2dmlops-09e03a:778daa7463353eff6b4b7e0546c2a1774de756d8"


practical_3
~$OPS_P3_200125310...
linear_regression_mod...
MLOPS_P3_20012531...
p2.ipynb
p3.ipynb
sample.csv
sample.txt
scaler_object.joblib
test_data.npy
train_data.npy
practical_3
~$OPS_P3_20012531031_Tirth Shah.docx
linear_regression_model.joblib
MLOPS_P3_20012531031_Tirth Shah.docx
p2.ipynb
p3.ipynb
sample.csv
sample.txt
scaler_object.joblib
test_data.npy
train_data.npy
practical_4
practical_5
practical_6
practical_7
practical_8
practical_9
2CEAI702_MLOPs_LabManual.pdf
Docker.pdf
MLOPS_Intro.pdf
OUTLINE
[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)
[12] 0.0s
Mean Squared Error (MSE): 15.709362447765187
R-squared (R2) score: 0.500344113338578