MACHINE LEARNING OPERATIONS

WEEK 1

UNLIMITED

Presented by **Asst. Prof. Dr. Tuchsanai Ploysuwan**

notebook_v1

Logistic Reg
C = 1
solver = ‘lbfgs”

Dataset
V1

notebook_v2

Logistic Reg
C = 0.1
solver = ‘saga”

Dataset
V1

notebook_v3

XGBoost
max_depth = 3
solver = ‘saga”

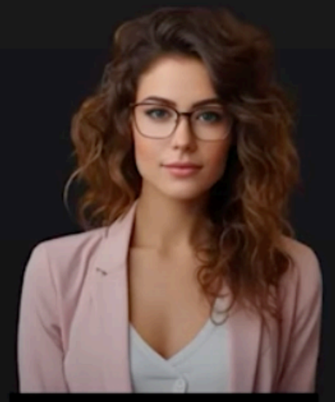
Dataset
V1

notebook_v4

XGBoost
max_depth = 3
solver = ‘saga”

Dataset
V2

Additional feature f10



Kathy

notebook_v5

Random Forest
criterion = ‘gini’

Dataset
V10

notebook_v6

Random Forest
criterion =
‘entropy’

Dataset
V10

notebook_v7

XGBoost
max_depth = 4
learning_rate=0.01

Dataset
V10

notebook_v8

XGBoost
max_depth = 3
learning_rate=0.01

Dataset
V20

Additional feature f10

Venkat

Run_id	Date	User	Model	Params	Dataset	F1 Score ('macro')	Recall (Class=1)	Accuracy
1	1-Jul-24	Kathy	Logistic Reg	C=1, Solver='lbfgs'	V1	0.75	0.62	0.71
2	2-Jul-24	Kathy	Logistic Reg	C=1, Solver='saga'	V1	0.78	0.58	0.62
3	6-Jul-24	Kathy	XGBoost	max_depth=3,solver='saga'	V1	0.82	0.72	0.75
4	9-Jul-24	Kathy	XGBoost	max_depth=3,solver='saga'	V2	0.87	0.74	0.77
5	28-Jun-24	Venkat	Random Forest	criterion='gini'	V10	0.71	0.87	0.82
6	2-Jul-24	Venkat	Random Forest	criterion='entropy'	V10	0.67	0.84	0.81
7	10-Jul-24	Venkat	XGBoost	max_depth=4, lr=0.01	V10	0.83	0.92	0.79
8	11-Jul-24	Venkat	XGBoost	max_depth=3, lr=0.01	V20	0.82	0.89	0.84

Here’s a simple command to run MLflow with its tracking server:

create directory

```
mkdir -p MLflow  # -p flag ensures no error if directory already exists
cd MLflow
```

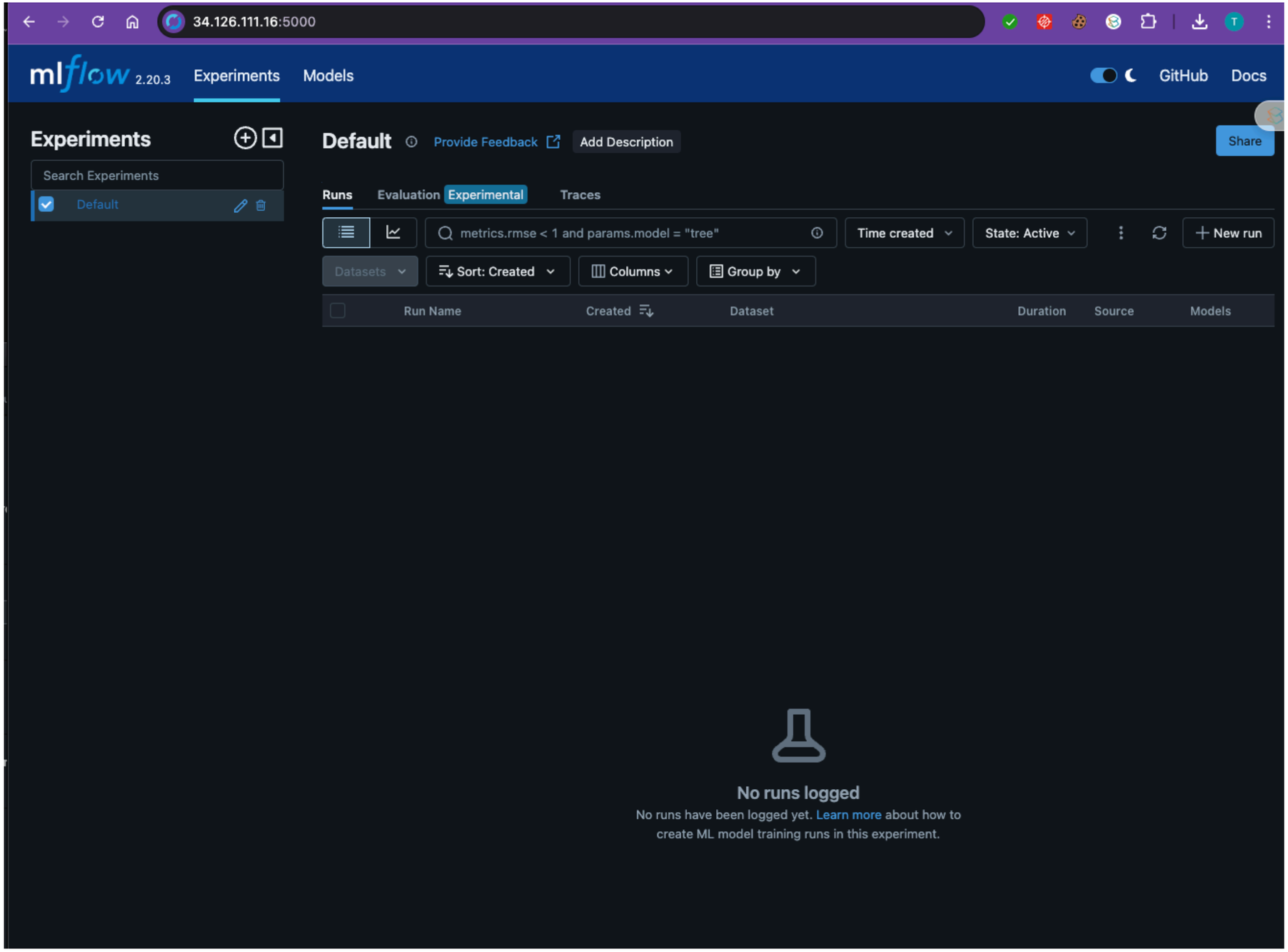
Run MLflow UI with Docker

```
docker run -d \
  -p 5000:5000 \
  -v "$(pwd):/mlflow" \
  ghcr.io/mlflow/mlflow:latest \
  mlflow ui \
  --backend-store-uri file:///mlflow \
  --host 0.0.0.0
```

Verify It Works:

After running, check

```
http://ip_address:5000
```


34.126.111.16:5000
mlflow 2.20.3
Experiments
Models
GitHub
Docs
Experiments
Search Experiments
Default
Default
Provide Feedback
Add Description
Share
Runs
Evaluation
Experimental
Traces
metrics.rmse < 1 and params.model = "tree"
Time created
State: Active
New run
Datasets
Sort: Created
Columns
Group by
Run Name
Created
Dataset
Duration
Source
Models
No runs logged
No runs have been logged yet. Learn more about how to create ML model training runs in this experiment.