

ef0dc9dccc1f1.notebookscjarvislabs.net/#/experiments/1

mlflow1.26.1ExperimentsModelsGitHubDocs

Experiments+<Baseline\_model\_exp\_01

Search Experiments

DefaultBaseline\_model\_exp\_...Baseline\_model\_exp\_...Lead\_scoring\_mlflow...

Track machine learning training runs in experiments. Learn more

Experiment ID: 1

DescriptionEdit

RefreshCompareDeleteDownload CSVStart TimeAll time

ColumnsOnly show differencesmetrics.rmse < 1 and params.model = "tree"SearchFilterClear

Showing 45 matching runs

								Metrics >			
	Start Time	Duration	Run Name	User	Source	Version	Models	AUC	Accuracy	F1	C
	1 hour ago		Session Initi...	root	ipykernel...	-	-	-	-	-	-
	1 hour ago		Light Gradie...	root	ipykernel...	-	sklearn	0.821	0.739	0.762	-
	1 hour ago		Naive Bayes	root	ipykernel...	-	sklearn	0.734	0.663	0.727	-
	1 hour ago		Linear Discri...	root	ipykernel...	-	sklearn	0.773	0.701	0.728	-
	1 hour ago		Ridge Classif...	root	ipykernel...	-	sklearn	0	0.701	0.728	-
	1 hour ago		Logistic Reg...	root	ipykernel...	-	sklearn	0.784	0.71	0.74	1.1
	1 hour ago		Random For...	root	ipykernel...	-	sklearn	0.817	0.735	0.762	-
	1 hour ago		Decision Tre...	root	ipykernel...	-	sklearn	0.817	0.736	0.758	-
	1 hour ago		Extra Trees C...	root	ipykernel...	-	sklearn	0.818	0.737	0.758	-
	1 hour ago		Light Gradie...	root	ipykernel...	-	sklearn	0.821	0.739	0.762	-

ef0dc9dccc1f1.notebookscjarvislabs.net/#/experiments/2

mlflow1.26.1ExperimentsModelsGitHubDocs

Experiments+<Baseline\_model\_exp\_02

Search Experiments

DefaultBaseline\_model\_exp\_...Baseline\_model\_exp\_...Lead\_scoring\_mlflow...

Track machine learning training runs in experiments. Learn more

Experiment ID: 2

DescriptionEdit

RefreshCompareDeleteDownload CSVStart TimeAll time

ColumnsOnly show differencesmetrics.rmse < 1 and params.model = "tree"SearchFilterClear

Showing 33 matching runs

								Metrics >			
	Start Time	Duration	Run Name	User	Source	Version	Models	AUC	Accuracy	F1	C
	1 hour ago		Session Initi...	root	ipykernel...	-	-	-	-	-	-
	1 hour ago		Light Gradie...	root	ipykernel...	-	Lead_scori.../1	0.821	0.739	0.76	-
	1 hour ago		Naive Bayes	root	ipykernel...	-	Lead_scori.../2	0.734	0.67	0.723	-
	1 hour ago		Linear Discri...	root	ipykernel...	-	sklearn	0.773	0.7	0.728	-
	1 hour ago		Ridge Classif...	root	ipykernel...	-	sklearn	0	0.7	0.728	-
	1 hour ago		Logistic Reg...	root	ipykernel...	-	sklearn	0.784	0.71	0.74	1.1
	1 hour ago		Random For...	root	ipykernel...	-	sklearn	0.818	0.735	0.762	-
	1 hour ago		Decision Tre...	root	ipykernel...	-	sklearn	0.817	0.736	0.758	-
	1 hour ago		Extra Trees C...	root	ipykernel...	-	sklearn	0.817	0.737	0.758	-
	1 hour ago		Extreme Gra...	root	ipykernel...	-	sklearn	0.821	0.738	0.761	-

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mlflow1.26.1ExperimentsModelsGitHubDocs

Experiments

Lead\_scoring\_mlflow\_production

Share

Search Experiments

DefaultBaseline\_model\_exp...Baseline\_model\_exp...Lead\_scoring\_mlflow...

Track machine learning training runs in experiments. [Learn more](#)

Experiment ID: 3

DescriptionEdit

RefreshCompareDeleteDownload CSVStart TimeAll time

ColumnsOnly show differencesmetrics.rmse < 1 and params.model = "tree"SearchFilterClear

Showing 12 matching runs

								Metrics >			
	Start Time	Duration	Run Name	User	Source	Version	Models	AUC	False Negative	False Positive	
	1 minute ago	9.4s	Lead_scoring...	root	airflow	-	LightGBM/12	0.751	3891	8459	gt
	1 minute ago	9.0s	Lead_scoring...	root	airflow	-	LightGBM/11	0.751	3891	8459	gt
	2 minutes ago	9.5s	Lead_scoring...	root	airflow	-	LightGBM/10	0.751	3891	8459	gt
	3 minutes ago	9.4s	Lead_scoring...	root	airflow	-	LightGBM/9	0.751	3891	8459	gt
	6 minutes ago	9.1s	Lead_scoring...	root	airflow	-	LightGBM/8	0.751	3891	8459	gt
	6 minutes ago	9.4s	Lead_scoring...	root	airflow	-	LightGBM/7	0.751	3891	8459	gt
	7 minutes ago	8.9s	Lead_scoring...	root	airflow	-	LightGBM/6	0.751	3891	8459	gt
	7 minutes ago	9.5s	Lead_scoring...	root	airflow	-	LightGBM/5	0.751	3891	8459	gt
	8 minutes ago	9.2s	Lead_scoring...	root	airflow	-	LightGBM/4	0.751	3891	8459	gt
	8 minutes ago	9.1s	Lead_scoring...	root	airflow	-	LightGBM/3	0.751	3891	8459	gt

ef0dc9dcccfe1.notebookscjarvislabs.net/#/experiments/3/runs/d02704c585b34670b95f184c421ffef6

Lead\_scoring\_mlflow\_production\_18\_03\_2024

Date: 2024-03-18 08:58:36Duration: 9.4sSource: airflowStatus: FINISHEDUser: rootLifecycle Stage: active

DescriptionEditParameters (21)Metrics (9)TagsArtifacts

models

Full Path:/home/MlopsProject/airflow/shuren/mlruns/3/d02704c585b34670b95f184c421ffef6/artifacts/modelsLightGBM, v12Registered on 2024/03/18

MLflow Model

The code snippets below demonstrate how to make predictions using the logged model. This model is also registered to the [model registry](#).

Model schema

Input and output schema for your model. [Learn more](#)

Name	Type
No schema. See <a href="#">MLflow docs</a> for how to include input and output schema with your model.	

Make Predictions

Predict on a Spark DataFrame:

```
import mlflow
logged_model = 'runs:/d02704c585b34670b95f184c421ffef6/models'


# Load model as a Spark UDF. Override result_type if the model does not return double values.
loaded_model = mlflow.pyfunc.spark_udf(spark, model_uri=logged_model, result_type='double')

# Predict on a Spark DataFrame.
columns = list(df.columns)
df.withColumn('predictions', loaded_model(*columns)).collect()
```

Predict on a Pandas DataFrame:

# Lead\_scoring\_mlflow\_production\_18\_03\_2024

Date: 2024-03-18 08:58:36

Source:  airflow

User: root

Duration: 9.4s

Status: FINISHED

Lifecycle Stage: active

▸ Description [Edit](#)

▼ Parameters (21)

Name	Value
boosting_type	gbdt
class_weight	None
colsample_bytree	1.0
device	gpu
importance_type	split
learning_rate	0.1
max_depth	-1
min_child_samples	20
min_child_weight	0.001
min_split_gain	0.0
n_estimators	100
n_jobs	-1

min_child_weight	0.001
min_split_gain	0.0
n_estimators	100
n_jobs	-1
num_leaves	31
objective	None
random_state	100
reg_alpha	0.0
reg_lambda	0.0
silent	warn
subsample	1.0
subsample_for_bin	200000
subsample_freq	0

▸ Metrics (9)

▸ Tags

▼ Artifacts

▼ models

MLmodel

conda.yaml


model.pkl

Full Path:/home/MlopsProject/airflow/shuren/mlruns/3/d02704c585b34670b95f184c421ffef6/artifacts/models

MLflow Model

## Lead\_scoring\_mlflow\_production\_18\_03\_2024

Date: 2024-03-18 08:58:36

Source:  airflow

User: root

Duration: 9.4s

Status: FINISHED

Lifecycle Stage: active

▸ Description [Edit](#)

▸ Parameters (21)

▸ Metrics (9)

▸ Tags

▼ Artifacts

▼ models

MLmodel

conda.yaml

model.pkl

python\_env.yaml

requirements.txt

Full Path:/home/MlopsProject/airflow/shuren/mlruns/3/d02704c585b34670b95f184c421ffef6/artifacts/models/MLmodel 

Size: 4348

```
artifact_path: models
flavors:
  python_function:
    env: conda.yaml
    loader_module: mlflow.sklearn
    model_path: model.pkl
    python_version: 3.8.12
  sklearn:
    code: null
    pickled_model: model.pkl
    serialization_format: cloudpickle
    sklearn_version: 0.23.2
mlflow_version: 1.26.1
model_uuid: 2a1e8b62deea4c838b9c1ffecad2fd2e
run_id: d02704c585b34670b95f184c421ffef6
utc_time_created: '2024-03-18 13:58:41.327955'
```

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mlflow1.26.1

Experiments

Models

GitHub


Docs

Baseline\_model\_exp\_02 > Light Gradient Boosting Machine

Light Gradient Boosting Machine

⋮

Date: 2024-03-18 08:11:40

Source:  ipykernel\_launcher.py

User: root

Status: UNFINISHED

Lifecycle Stage: active

Parent Run: [cdd7a05f673f4b3ca3e061dd05f5e33e](#)

▶ Description [Edit](#)

▶ Parameters (24)

▼ Metrics (8)

Name	Value
AUC <a href="#">🔗</a>	0.821
Accuracy <a href="#">🔗</a>	0.739
F1 <a href="#">🔗</a>	0.76
Kappa <a href="#">🔗</a>	0.477
MCC <a href="#">🔗</a>	0.484
Prec. <a href="#">🔗</a>	0.705
Recall <a href="#">🔗</a>	0.825
TT <a href="#">🔗</a>	7.25

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mlflow1.26.1

Experiments

Models

GitHub


Docs

Baseline\_model\_exp\_02 > Light Gradient Boosting Machine

Light Gradient Boosting Machine

⋮

Date: 2024-03-18 08:11:40

Source:  ipykernel\_launcher.py

User: root

Status: UNFINISHED

Lifecycle Stage: active

Parent Run: [cdd7a05f673f4b3ca3e061dd05f5e33e](#)

▶ Description [Edit](#)

▶ Parameters (24)


▼ Metrics (8)


▶ Tags (5)


▼ Artifacts


▼ model


MLmodel


 conda.yaml


 model.pkl


 python\_env.yaml


 requirements.txt

 AUC.png

 Confusion Matrix.png


 Feature Importance.png

 Holdout.html

 iterations.html

Full Path:/home/MlopsProject/airflow/shuren/mlruns/2/bd4b80b9a9ab4c819b09d002500fb74a/artifacts/model/MLmodel

Size: 433B



artifact\_path: model

flavors:

python\_function:

env: conda.yaml

loader\_module: mlflow.sklearn

model\_path: model.pkl

python\_version: 3.8.12

sklearn:

code: null

pickled\_model: model.pkl

serialization\_format: cloudpickle

sklearn\_version: 0.23.2

mlflow\_version: 1.26.1

model\_uuid: f719a26c9f974755a0d2a358c5860e9c

run\_id: bd4b00b9a9ab4c819b09d002500fb74a

utc\_time\_created: '2024-03-18 13:11:44.858181'

d76f4214e3841.notebooksc.jarvislabs.net/#/models

mlflow1.26.1

ExperimentsModels

GitHubDocs

Registered Models

Share and manage machine learning models. [Learn more](#)

Create Model

Search by model name

Search

Filter

Clear

Name	Latest Version	Staging	Production	Last Modified	Tags
Lead_scoring_mlflow_production	Version 1	Version 1	-	2024-03-18 08:17:59	-

<1>

10 / page

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mlflow1.26.1

ExperimentsModels

GitHubDocs

Registered Models

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Create Model

Search by model name

Search

Filter

Clear

Name	Latest Version	Staging	Production	Last Modified	Tags
Lead_scoring_mlflow_production	Version 1	-	Version 1	2024-03-18 08:24:21	-

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10 / page

Data Pipeline on Train data [Overall View]

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Airflow

DAGsSecurityBrowseAdminDocs

14:01 UTCUU

Do not use SQLite as metadata DB in production – It should only be used for dev/testing. We recommend using Postgres or MySQL. [Click here](#) for more information.

Do not use SequentialExecutor in production. [Click here](#) for more information.

DAGs


All35Active3Paused32

Filter DAGs by tag

Search DAGs

DAG	Owner	Runs	Schedule	Last Run	Next Run	Recent Tasks	Action
Lead_Scoring_Data_Engineering_Pipeline	airflow	79	@daily	2024-03-18, 13:57:54	2024-03-18, 00:00:00	7	
Lead_scoring_inference_pipeline	airflow	1012	@hourly	2024-03-18, 13:58:01	2024-03-18, 14:00:00	4	
Lead_scoring_training_pipeline	airflow	1291	@monthly	2024-03-18, 13:57:45	2024-04-01, 00:00:00	2	
example bash operator							

← → ↺ 🏠 📄 e7a1da21dc6c2.notebooksajarvislabs.net/dags/Lead\_Scoring\_Data\_Engineering\_Pipeline/grid 🔍 ☆ 📄 📄 📄 📄

 Airflow


DAGs


Security

Browse


Admin


Docs


17:32 CDT (-05:00) 


 DAG: Lead\_Scoring\_Data\_Engineering\_Pipeline DAG to run data pipeline for lead scoring


Schedule: @daily ⓘ Next Run: 2024-03-16, 19:00:00


 Grid


 Graph


 Calendar


 Task Duration


 Task Tries


 Landing Times


 Gantt

 Details

 <> Code

 Audit Log

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03/17/2024 05:31:22 PM 📅 25 ▾ All Run Types ▾ All Run States ▾ Clear Filters

Auto-refresh ☐

Duration

00:01:34

00:00:47

00:00:00

Mar 16, 18:00

building\_db

checking\_raw\_data\_schema

loading\_data

mapping\_city\_tier

mapping\_categorical\_vars

mapping\_interactions

checking\_model\_inputs\_schema

Lead\_Scoring\_Data\_Engineering\_Pipeline

DAG Details

DAG Runs Summary

Total Runs Displayed10

Total success2

Total failed8

First Run Start2024-03-16, 16:25:07 CDT

Last Run Start2024-03-17, 17:28:50 CDT


Max Run Duration00:01:34

Mean Run Duration00:00:41

Min Run Duration00:00:17

DAG Summary

← → ↺ 🏠 📄 e7a1da21dc6c2.notebooksajarvislabs.net/dags/Lead\_Scoring\_Data\_Engineering\_Pipeline/graph 🔍 ☆ 📄 📄 📄 📄

 Airflow


DAGs


Security

Browse


Admin


Docs


17:32 CDT (-05:00) 


 DAG: Lead\_Scoring\_Data\_Engineering\_Pipeline DAG to run data pipeline for lead scoring


success Schedule: @daily ⓘ Next Run: 2024-03-16, 19:00:00


 Grid


 Graph


 Calendar


 Task Duration


 Task Tries


 Landing Times


 Gantt

 Details

 <> Code

 Audit Log

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📅 2024-03-17T17:28:34-05:00 Runs 25 ▾ Run manual\_\_2024-03-17T22:28:33.209795+00:00 ▾ Layout Left > Right ▾ Update

Find Task...

PythonOperator

deferred failed queued running scheduled skipped success up\_for\_reschedule up\_for\_retry upstream\_failed no\_status

Auto-refresh ☐ 🔄

building\_db

checking\_raw\_data\_schema

loading\_data

mapping\_city\_tier


mapping\_categorical\_vars

mapping\_interactions

checking\_model\_inputs\_schema



← → ↺ 🏠 📄 e7a1da21dc6c2.notebooksa.jarvislabs.net/dags/Lead\_scoring\_inference\_pipeline/grid 🔍 ☆ 📄 📄 📄 📄

 Airflow


DAGs


Security

Browse


Admin


Docs


17:36 CDT (-05:00) 


 DAG: Lead\_scoring\_inference\_pipeline Inference pipeline of Lead Scoring system


Schedule: @hourly ⓘ Next Run: 2024-03-17, 17:00:00


 Grid


 Graph


 Calendar


 Task Duration


 Task Tries


 Landing Times


 Gantt

 Details

 <> Code

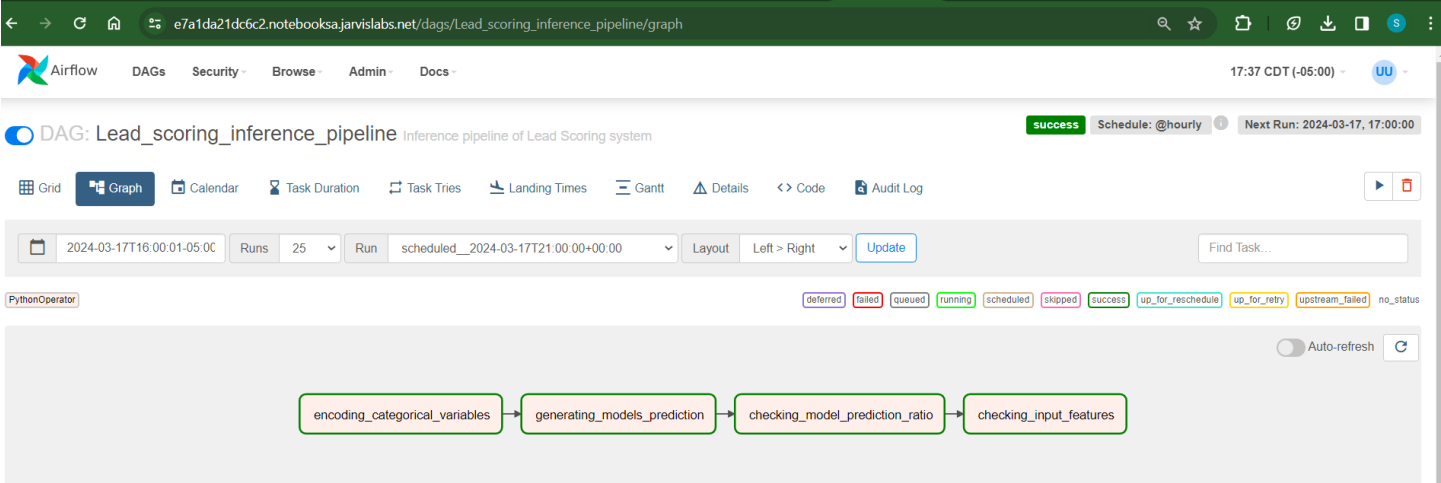
 Audit Log

 ▶

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03/17/2024 05:36:49 PM 📅 25 ▾ All Run Types ▾ All Run States ▾ Clear Filters

deferred failed queued running scheduled skipped success up\_for\_reschedule up\_for\_retry upstream\_failed no\_status



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Airflow

DAGs

Security

Browse

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Docs

14:01 UTC

UU

DAG: Lead\_scoring\_training\_pipeline

Training pipeline for Lead Scoring System

Schedule: @monthly

Next Run: 2024-04-01, 00:00:00

Grid

Graph

Calendar

Task Duration

Task Tries

Landing Times

Gantt

Details

<> Code

Audit Log

03/18/2024 02:01:01 PM

25

All Run Types

All Run States

Clear Filters

deferred

failed

queued

running

scheduled

skipped

success

up\_for\_reschedule

up\_for\_retry

upstream\_failed

no\_status

