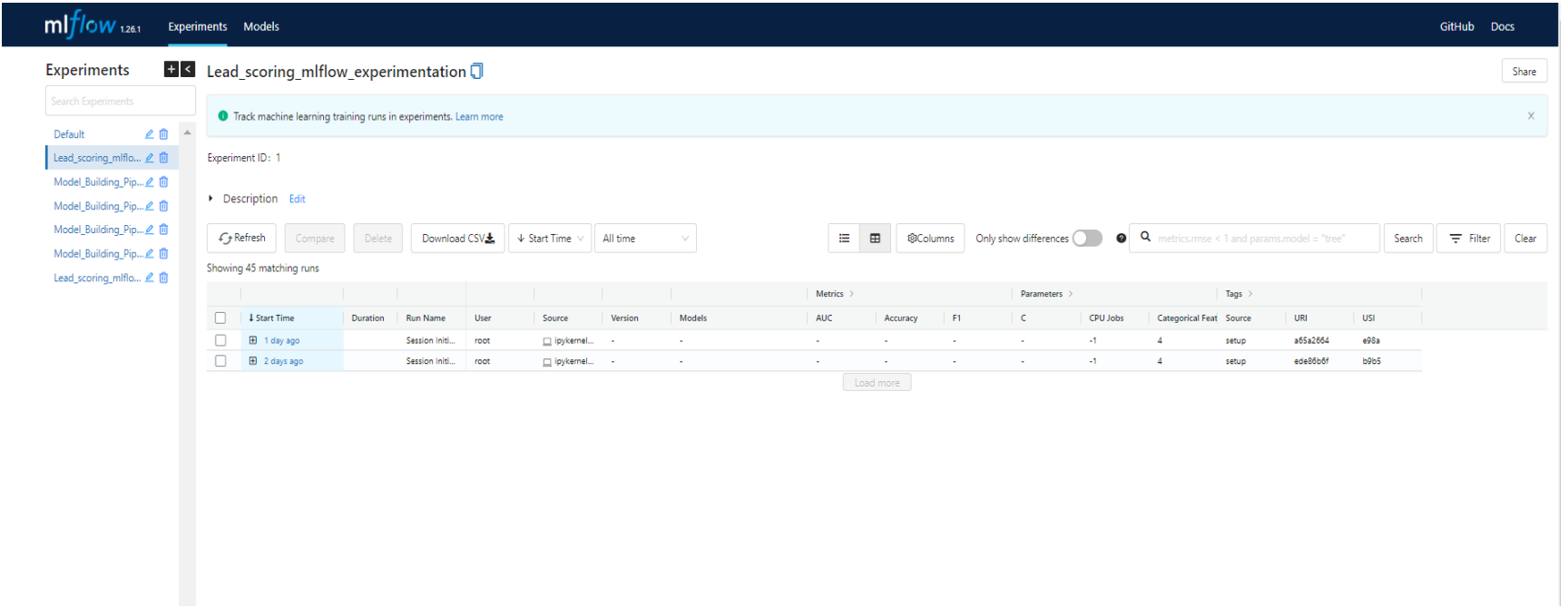
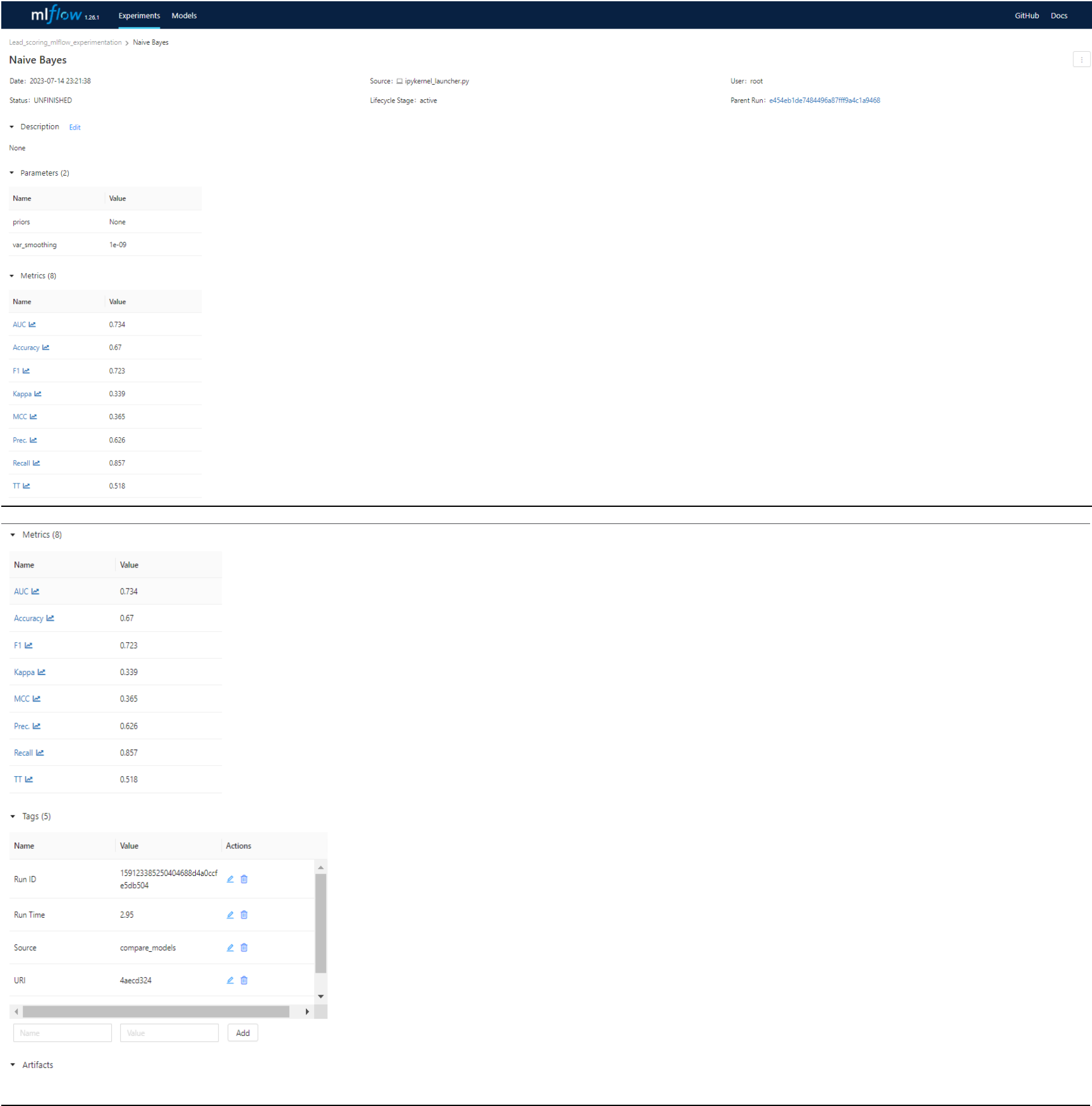


screenshot of all the experiments



screenshot of one experiment with all the artifacts visible



Screenshot of mlflow ui after dropping features

1. screenshot of all the experiments

mlflow1.28.1

ExperimentsModels

Experiments

+<

Lead_scoring_mlflow_experimentation

Share

Search Experiments

Default

Lead_scoring_mlflow...

Model_Building_Pip...

Model_Building_Pip...

Model_Building_Pip...

Model_Building_Pip...

Lead_scoring_mlflow...

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

Experiment ID: 1

Description

Edit

Refresh

Compare

Delete

Download CSV

Start Time

All time

Columns

Only show differences

metrics.rmse < 1 and params.model = "tree"

Search

Filter

Clear

Showing 45 matching runs

							Metrics >			Parameters >			Tags >			
	Start Time	Duration	Run Name	User	Source	Version	Models	AUC	Accuracy	F1	C	CPU Jobs	Categorical Feat	Source	URI	USI
	1 day ago		Session Init...	root	ipykernel...	-	-	-	-	-	-	-1	4	setup	a59a2664	e98a
	1 day ago		Light Gradie...	root	ipykernel...	-	sklearn	0.82	0.738	0.759	-	-	-	tune_model	832fee9	031d
	1 day ago		Light Gradie...	root	ipykernel...	-	sklearn	0.821	0.739	0.762	-	-	-	create_model	a8c8b264	031d
	1 day ago		Naive Bayes	root	ipykernel...	-	sklearn	0.734	0.67	0.723	-	-	-	compare_m...	003b4e42	031d
	1 day ago		Linear Discr...	root	ipykernel...	-	sklearn	0.773	0.7	0.728	-	-	-	compare_m...	d52655a1	031d
	1 day ago		Ridge Classi...	root	ipykernel...	-	sklearn	0	0.7	0.728	-	-	-	compare_m...	82bbca41	031d
	1 day ago		Logistic Reg...	root	ipykernel...	-	sklearn	0.784	0.71	0.74	1.0	-	-	compare_m...	d76554b4	031d
	1 day ago		Decision Tre...	root	ipykernel...	-	sklearn	0.817	0.736	0.758	-	-	-	compare_m...	48b4930	031d
	1 day ago		Extra Trees ...	root	ipykernel...	-	sklearn	0.817	0.737	0.758	-	-	-	compare_m...	455ebfb2	031d
	1 day ago		Random For...	root	ipykernel...	-	sklearn	0.818	0.737	0.759	-	-	-	compare_m...	4cac124a	031d
	1 day ago		Extreme Gra...	root	ipykernel...	-	sklearn	0.821	0.738	0.762	-	-	-	compare_m...	edd0a30	031d
	1 day ago		Light Gradie...	root	ipykernel...	-	sklearn	0.821	0.739	0.762	-	-	-	compare_m...	f281edb0	031d
	1 day ago		Session Init...	root	ipykernel...	-	-	-	-	-	-	-1	4	setup	fe3e2c97	031d
	1 day ago		Light Gradie...	root	ipykernel...	-	sklearn	0.821	0.739	0.762	-	-	-	create_model	e7c008ab	e98a
	1 day ago		Naive Bayes	root	ipykernel...	-	sklearn	0.734	0.663	0.727	-	-	-	compare_m...	5267874a	e98a
	1 day ago		Linear Discr...	root	ipykernel...	-	sklearn	0.773	0.701	0.728	-	-	-	compare_m...	fec09352	e98a
	1 day ago		Ridge Classi...	root	ipykernel...	-	sklearn	0	0.701	0.728	-	-	-	compare_m...	22b62014	e98a
	1 day ago		Logistic Reg...	root	ipykernel...	-	sklearn	0.784	0.71	0.74	1.0	-	-	compare_m...	b424fed4	e98a
	1 day ago		Decision Tre...	root	ipykernel...	-	sklearn	0.817	0.736	0.758	-	-	-	compare_m...	bdb99988	e98a
	1 day ago		Extra Trees ...	root	ipykernel...	-	sklearn	0.818	0.737	0.758	-	-	-	compare_m...	db254740	e98a
	1 day ago		Random For...	root	ipykernel...	-	sklearn	0.819	0.737	0.759	-	-	-	compare_m...	16d40cb6	e98a
	1 day ago		Extreme Gra...	root	ipykernel...	-	sklearn	0.821	0.738	0.762	-	-	-	compare_m...	92ccc35	e98a
	1 day ago		Light Gradie...	root	ipykernel...	-	sklearn	0.821	0.739	0.762	-	-	-	compare_m...	94ec9444	e98a

2. screenshot of one experiment with all the artifacts visible

mlflow

1.26.1

ExperimentsModels

GitHubDocs

Lead_scoring_mlflow_experimentation > Light Gradient Boosting Machine

Light Gradient Boosting Machine

Date: 2023-07-15 18:56:03

Status: UNFINISHED

Source: ipykernel_launcher.py

Lifecycle Stage: active

User: root

Parent Run: d5def6fc639e4bo785efb3c949ca1a99

DescriptionEdit

None

Parameters (20)

Name	Value
boosting_type	gbdt
class_weight	None
colsample_bytree	1.0
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
num_leaves	31
objective	None
random_state	42
reg_alpha	0.0

)

	Value
	0.82
	0.738
	0.759
	0.475
	0.482
	0.705
	0.822
	2.43

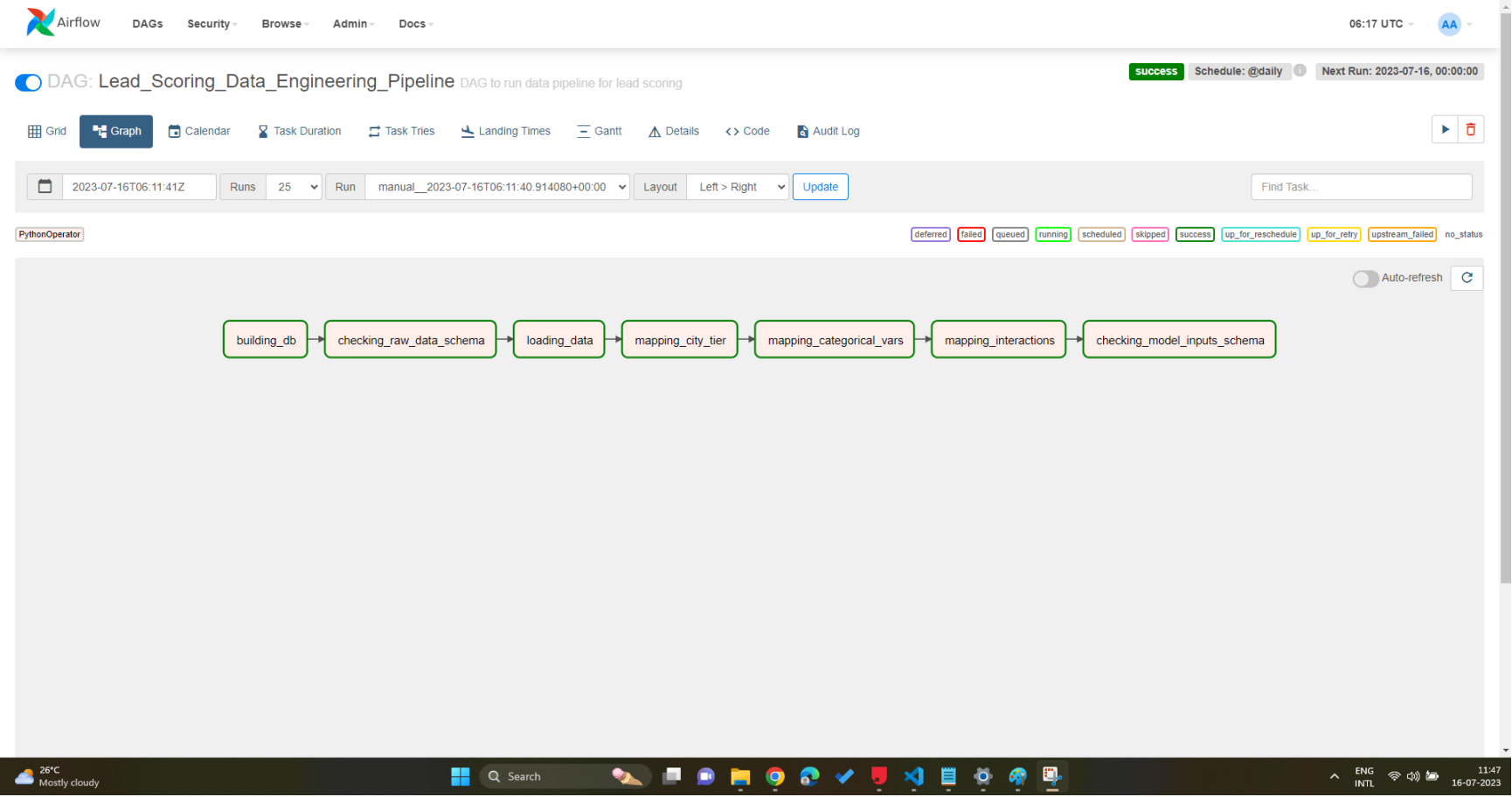
	Value	Actions
	0.12294	
	203.19	🔗 🗑️
	tune_model	🔗 🗑️
	832feef9	🔗 🗑️
	031d	🔗 🗑️

Value

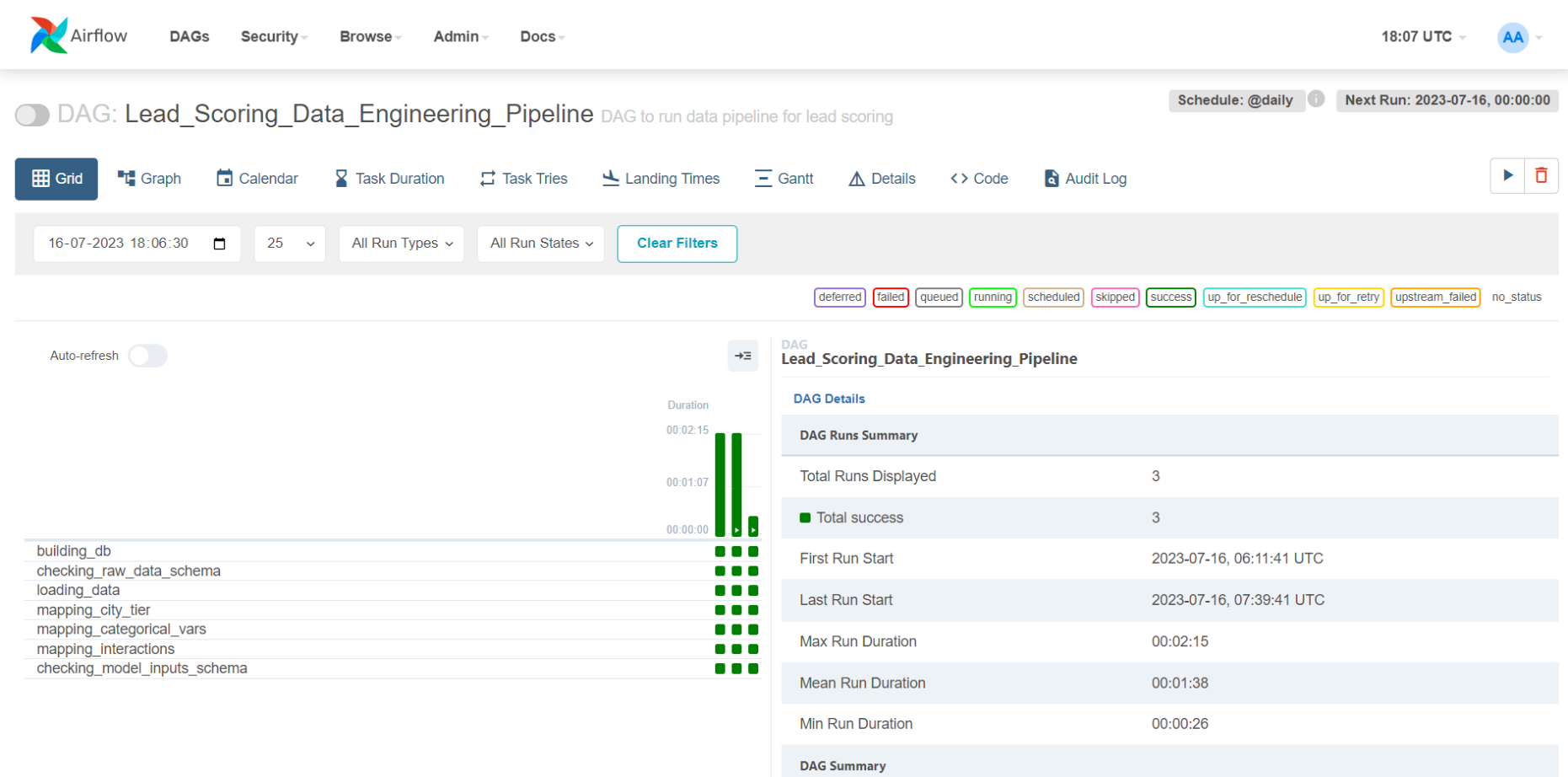
Add

Data Pipeline

Screenshot of successful execution Airflow DAG in graph



Screenshot of Airflow UI grid



Training Pipeline

screenshot of experiment with all the artifacts visible

mlflow1.28.1ExperimentsModels

Experiments+<Lead_scoring_mlflow_production

Search Experiments

Default

Lead_scoring_mlflow...

Model_Building_Pip...

Model_Building_Pip...

Model_Building_Pip...

Model_Building_Pip...

Lead_scoring_mlflow...

Track machine learning training runs in experiments. Learn more

Experiment ID: 6

DescriptionEdit

RefreshCompareDeleteDownload CSVStart TimeAll time

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

Showing 6 matching runs

								Metrics		Parameters			
	Start Time	Duration	Run Name	User	Source	Version	Models	False Negative	Precision	Precision_0	boosting.type	categorical.feat	class_weight
	11 hours ago	4.8s	Lead_scorin...	root	airflow	-	UghtGBM/6	3899	0.739	0.797	gbdt		None
	11 hours ago	4.8s	Lead_scorin...	root	ipykernel...	-	UghtGBM/5	3899	0.739	0.797	gbdt		None
	11 hours ago	4.8s	Lead_scorin...	root	ipykernel...	-	UghtGBM/4	-	-	-	gbdt		None
	11 hours ago	4.6s	Lead_scorin...	root	ipykernel...	-	UghtGBM/3	-	-	-	gbdt		None
	11 hours ago	4.5s	Lead_scorin...	root	ipykernel...	-	UghtGBM/2	-	-	-	gbdt		None
	11 hours ago	4.8s	Lead_scorin...	root	ipykernel...	-	UghtGBM/1	-	-	-	gbdt		None

Load more

mlflow1.28.1ExperimentsModels

Lead_scoring_mlflow_production > Lead_scoring_mlflow_production_run_16_07_2023_00_00_00

Lead_scoring_mlflow_production_run_16_07_2023_00_00_00

Date: 2023-07-16 12:36:09Source: airflowUser: rootDuration: 4.8sStatus: FINISHEDLifecycle Stage: active

DescriptionEditParameters (26)Metrics (13)TagsArtifacts

modelsMLmodelconda.yamlmodel.pklpython_env.yamlrequirements.txt

Full Path:./mlruns/6/591d17ceb4ad48b6a98cd757fcb9e3d4/artifacts/models

UghtGBM, v6Registered on 2023/07/16

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 MLflow docs for how to include input and output schema with your model.	

Make Predictions

Predict on a Spark DataFrame:

import mlflow
logged_model = 'runs:/591d17ceb4ad48b6a98cd757fcb9e3d4/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:

import mlflow
logged_model = 'runs:/591d17ceb4ad48b6a98cd757fcb9e3d4/models'

Load model as a PyFuncModel.
loaded_model = mlflow.pyfunc.load_model(logged_model)

Predict on a Pandas DataFrame.
import pandas as pd

screenshot of model registry with model name and stage as 'production'

mlflow1.26.1

ExperimentsModels

GitHubDocs

Registered Models > LightGBM

LightGBM

Created Time: 2023-07-16 12:19:37

Last Modified: 2023-07-16 13:03:55

DescriptionEdit

Tags

Versions

AllActive 1Compare

<input type="checkbox"/>	Version	Registered at	Created by	Stage	Description
<input type="checkbox"/>	Version 6	2023-07-16 12:36:13		Production	
<input type="checkbox"/>	Version 5	2023-07-16 12:25:49		Archived	
<input type="checkbox"/>	Version 4	2023-07-16 12:24:04		None	
<input type="checkbox"/>	Version 3	2023-07-16 12:21:33		None	
<input type="checkbox"/>	Version 2	2023-07-16 12:20:49		None	
<input type="checkbox"/>	Version 1	2023-07-16 12:19:37		None	

<

1

>

mlflow1.26.1

ExperimentsModels

GitHubDocs

Registered Models > LightGBM > Version 6

Version 6

Registered At: 2023-07-16 12:36:13

Stage: Production

Last Modified: 2023-07-16 13:03:55

DescriptionEdit

Tags

Schema

NameValueActions

No tags found.

NameValueAdd

NameType

No schema. See MLflow docs for how to include input and output schema with your model.

Screenshot of successful execution Airflow DAG in graph

DAG: Lead_scoring_training_pipeline

Training pipeline for Lead Scoring System

success

Schedule: @monthly

Next Run: 2023-07-01, 00:00:00

GridGraphCalendarTask DurationTask TimesLanding TimesGanttDetailsCodeAudit Log

2023-06-01T00:00:01Z

Runs25

Run

scheduled__2023-06-01T00:00:00:00:00

Layout

Left > Right

Update

Find Task...

PythonOperator

deferredfailedqueuedrunningscheduledskippedsuccessup_for_rescheduleup_for_refryupstream_failedno_status

Auto-refresh

encoding_categorical_variables

training_model

27°C

Mostly cloudy

Search

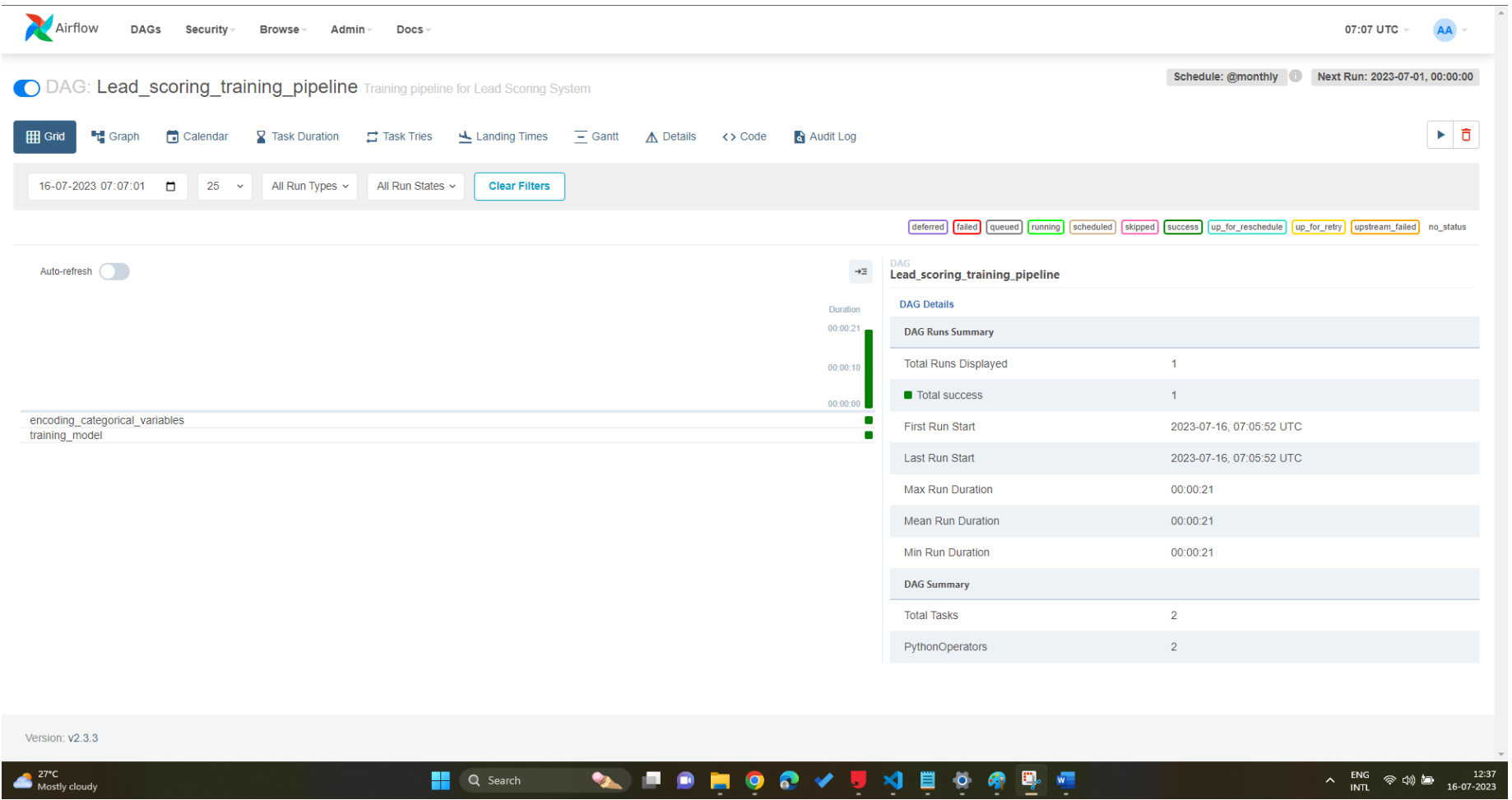
ENG

INTL

12:37

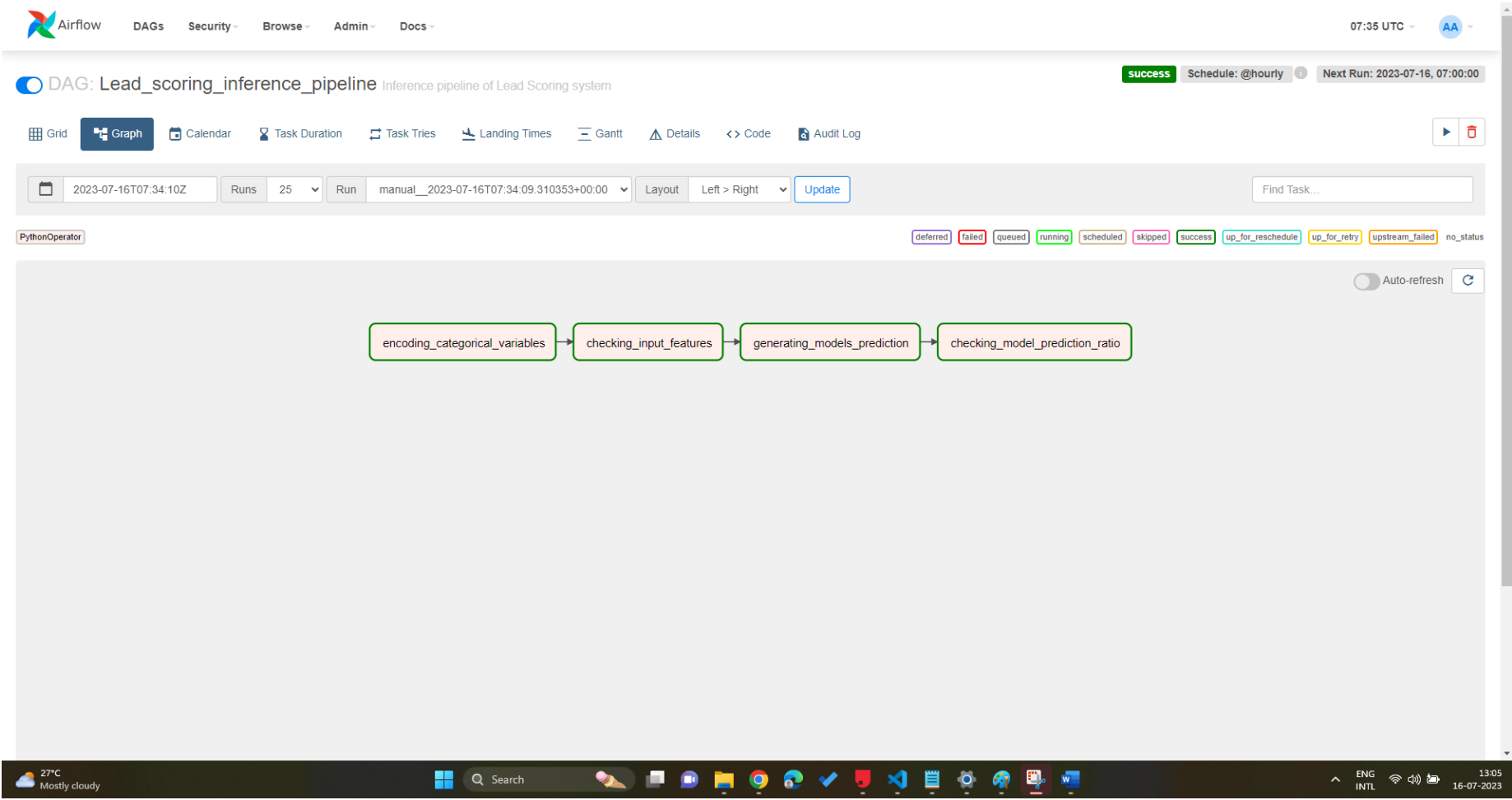
16-07-2023

Screenshot of Airflow UI grid

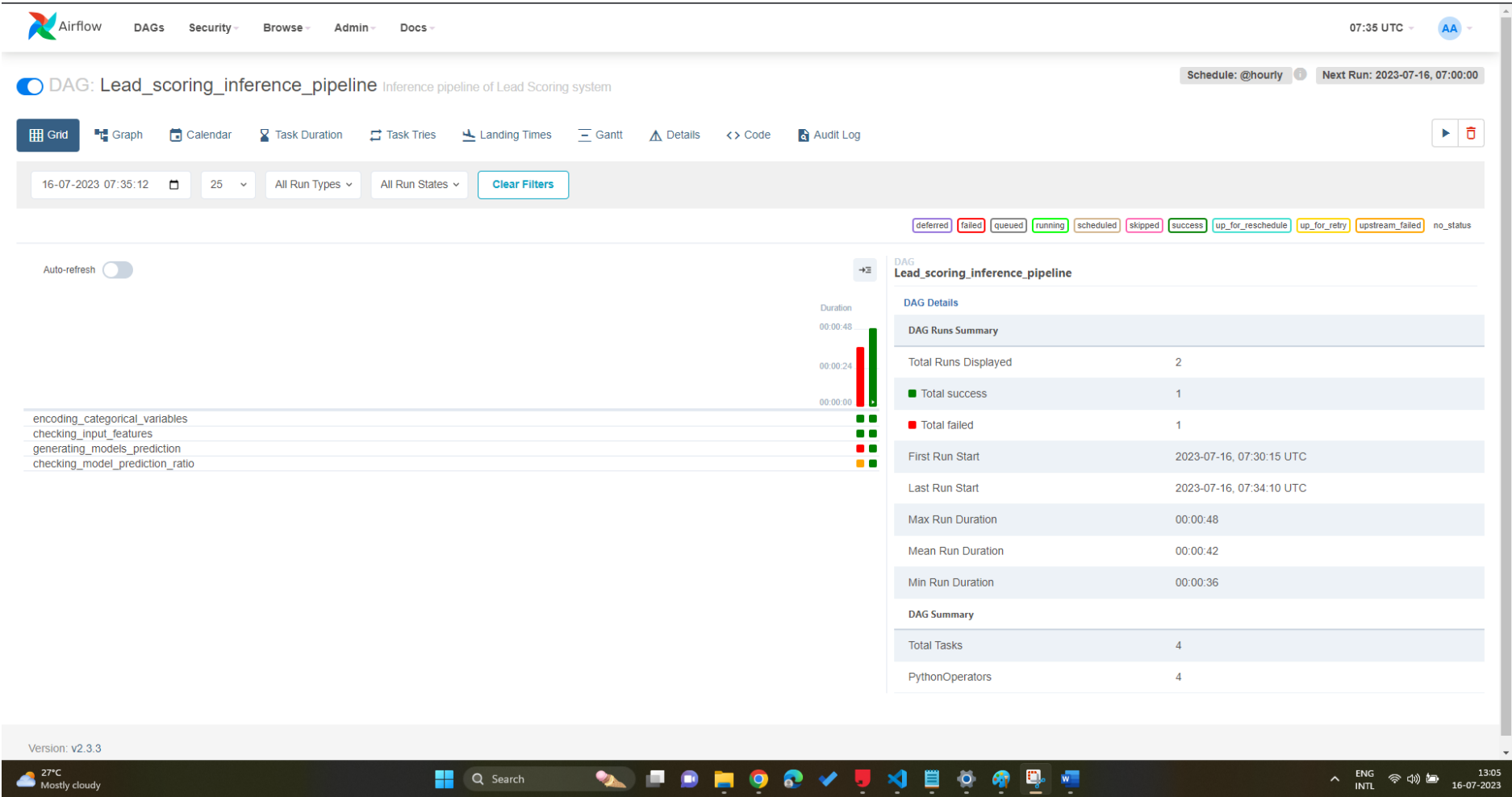


Inference Pipeline

Screenshot of successful execution Airflow DAG in graph



Screenshot of Airflow UI grid



With Leadsoring_inference.csv file

