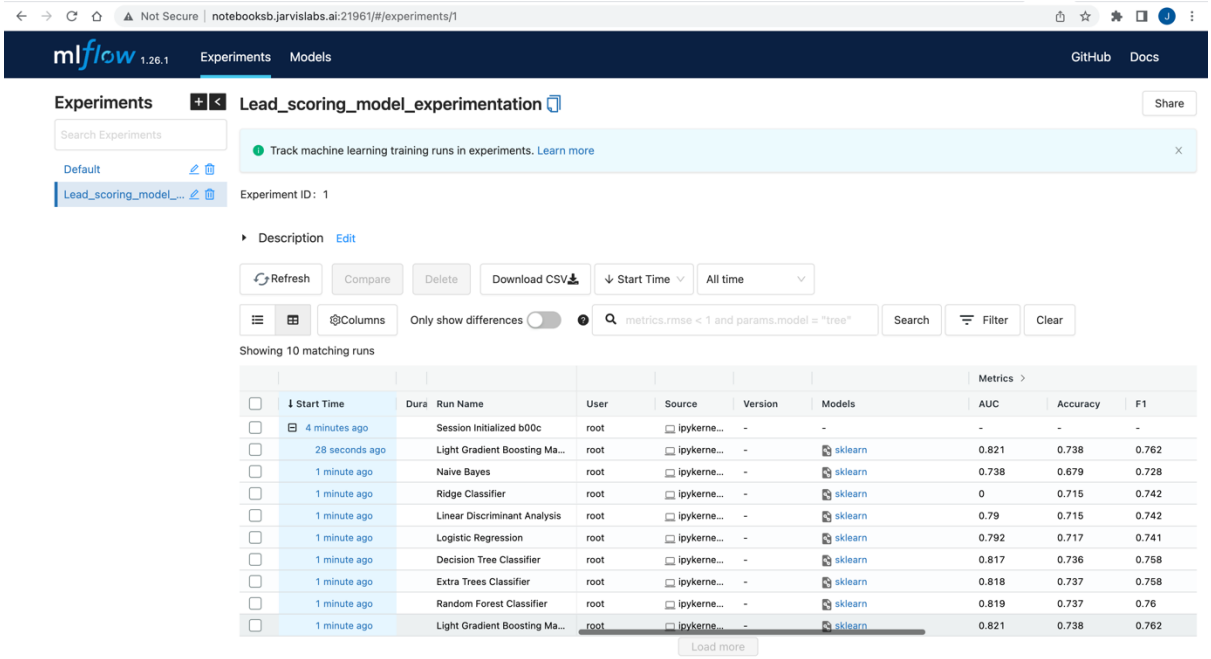
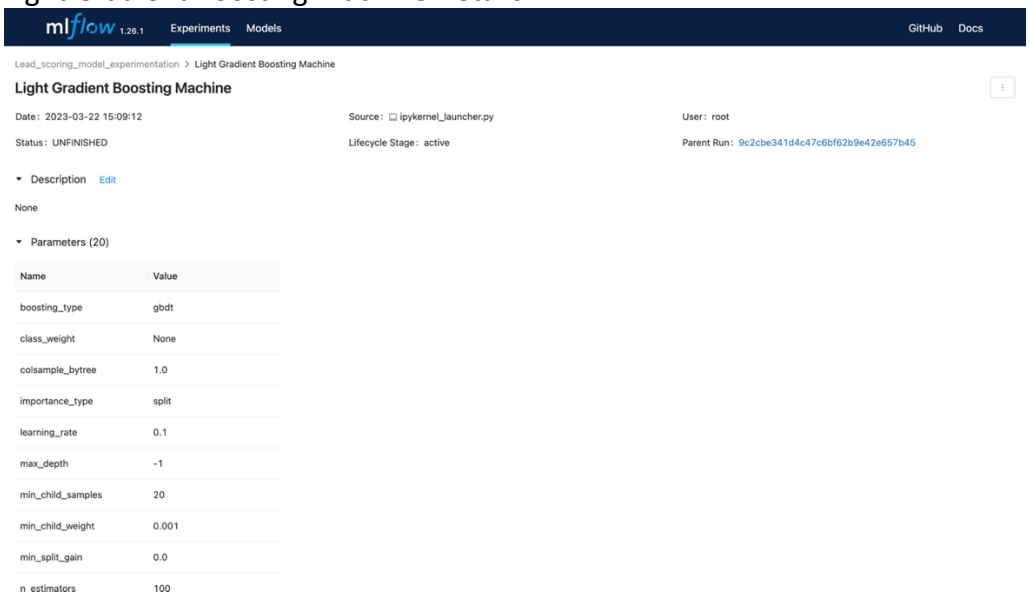
Model Experimentation

ML Flow UI

All the experiments (Lead_scoring_model_expermentation)



Light Gradient Boosting Machine Details



n_estimators	100
n_jobs	-1
num_leaves	31
objective	None
random_state	42
reg_alpha	0.0
reg_lambda	0.0
silent	warn
subsample	1.0
subsample_for_bin	200000
subsample_freq	0

▾ Metrics (8)

Name	Value
AUC	0.821
Accuracy	0.738
F1	0.762
Kappa	0.476
MCC	0.485

Accuracy	0.738
F1	0.762
Kappa	0.476
MCC	0.485
Prec.	0.702
Recall	0.833
TT	4.3

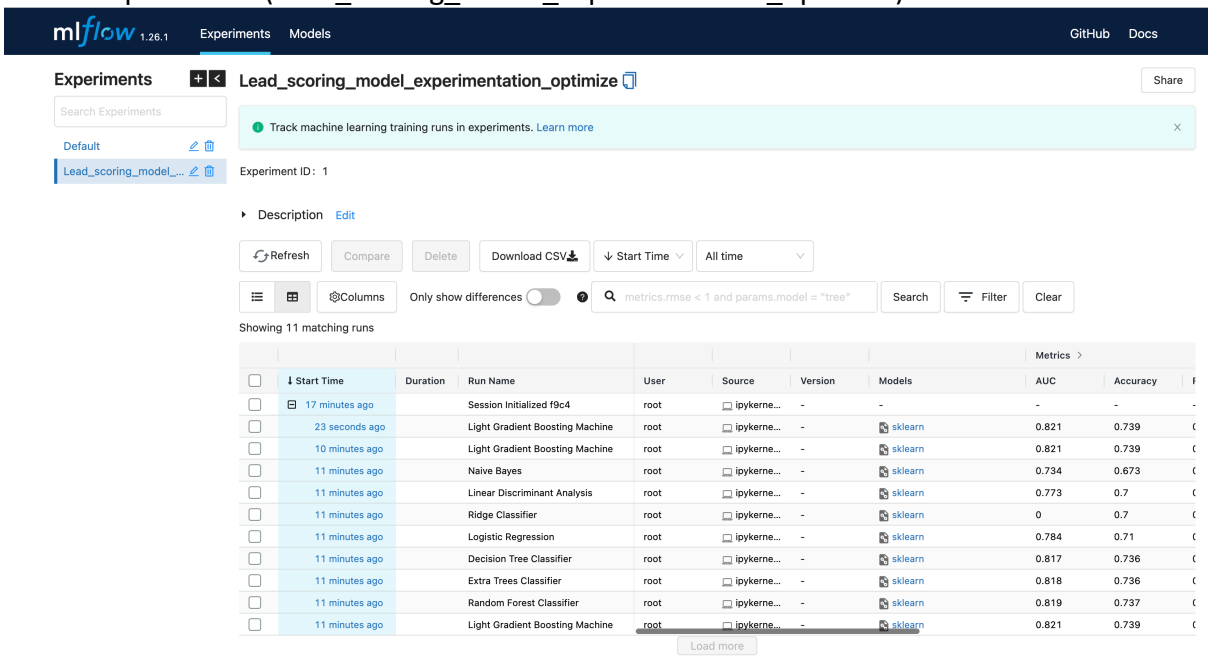
▾ Tags (5)

Name	Value	Actions
Run ID	834aab36f6ee483ab1603e4924f02cf3	
Run Time	22.43	
Source	create_model	
URI	ea4abcc3	
USI	b00c	
Name	Value	Add

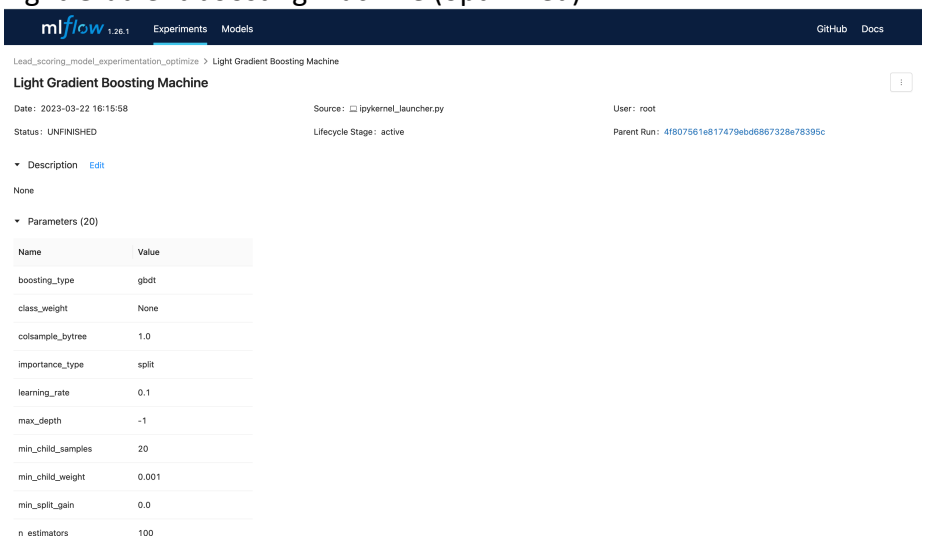
▾ Artifacts

ML Flow UI after dropping features

All the experiments (Lead_scoring_model_expermentation_optimize)



Light Gradient boosting machine (optimized)



n_estimators	100
n_jobs	-1
num_leaves	31
objective	None
random_state	42
reg_alpha	0.0
reg_lambda	0.0
silent	warn
subsample	1.0
subsample_for_bin	200000
subsample_freq	0

▾ Metrics (8)

Name	Value
AUC	0.821
Accuracy	0.739
F1	0.762
Kappa	0.477
MCC	0.485
Prec.	0.703
Recall	0.832
TT	25.33

▾ Tags (5)

Name	Value	Actions
Run ID	203161f068bb4eca859d0be0a515d4eb	
Run Time	537.8	
Source	tune_model	
URI	cdaad403	
USI	f9c4	

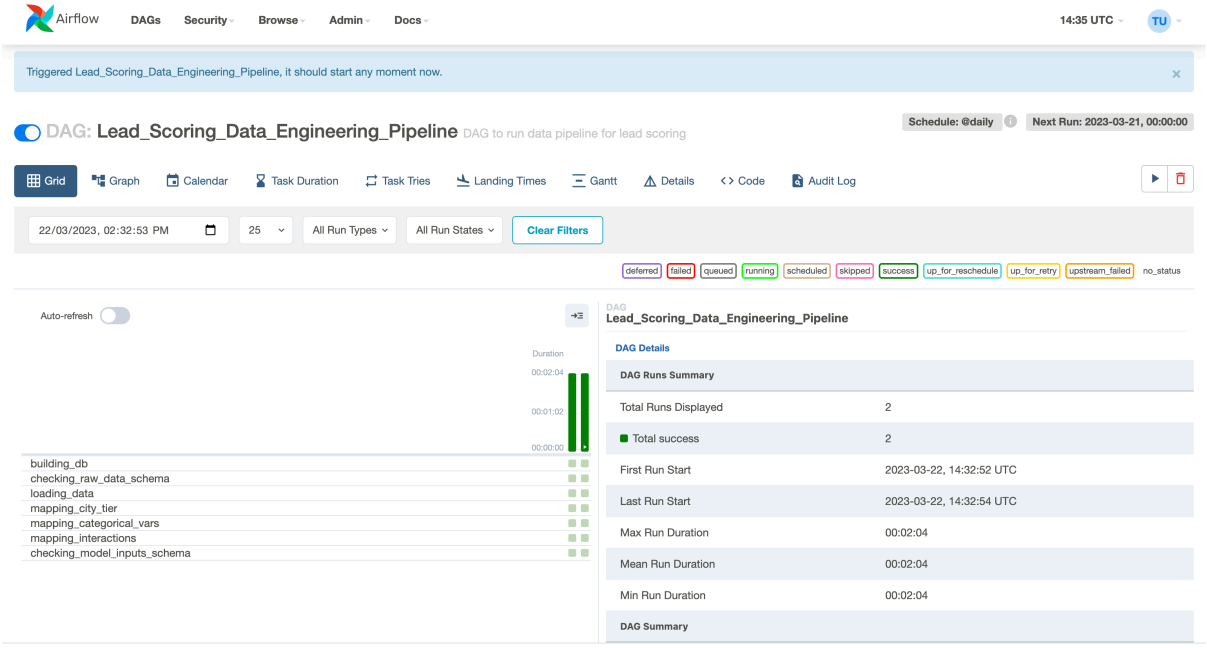
Name Value Add

▾ Artifacts

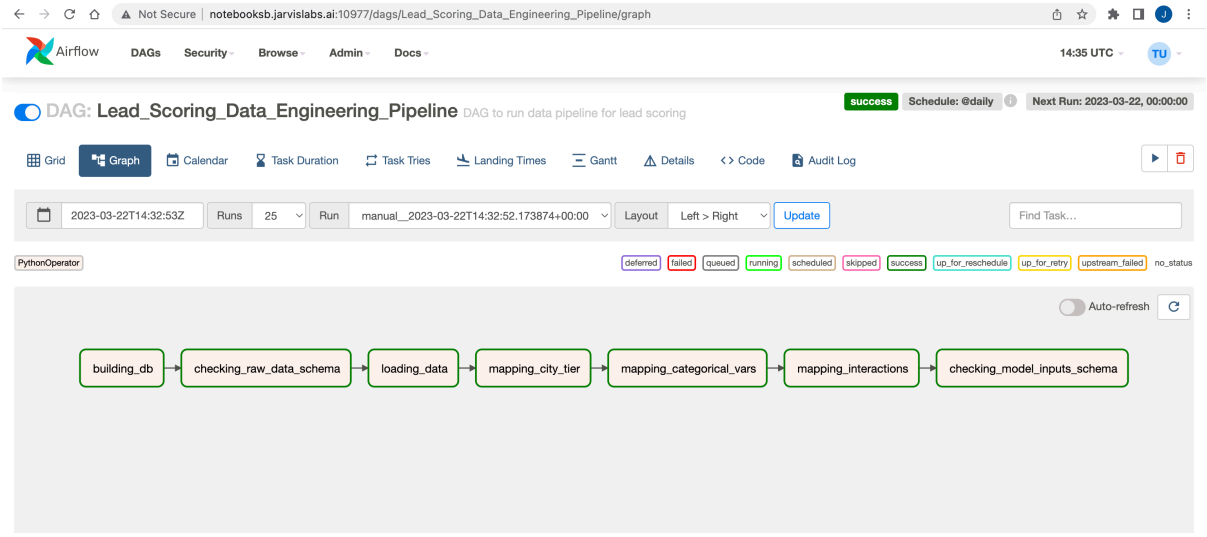
Data Pipeline

Air Flow UI

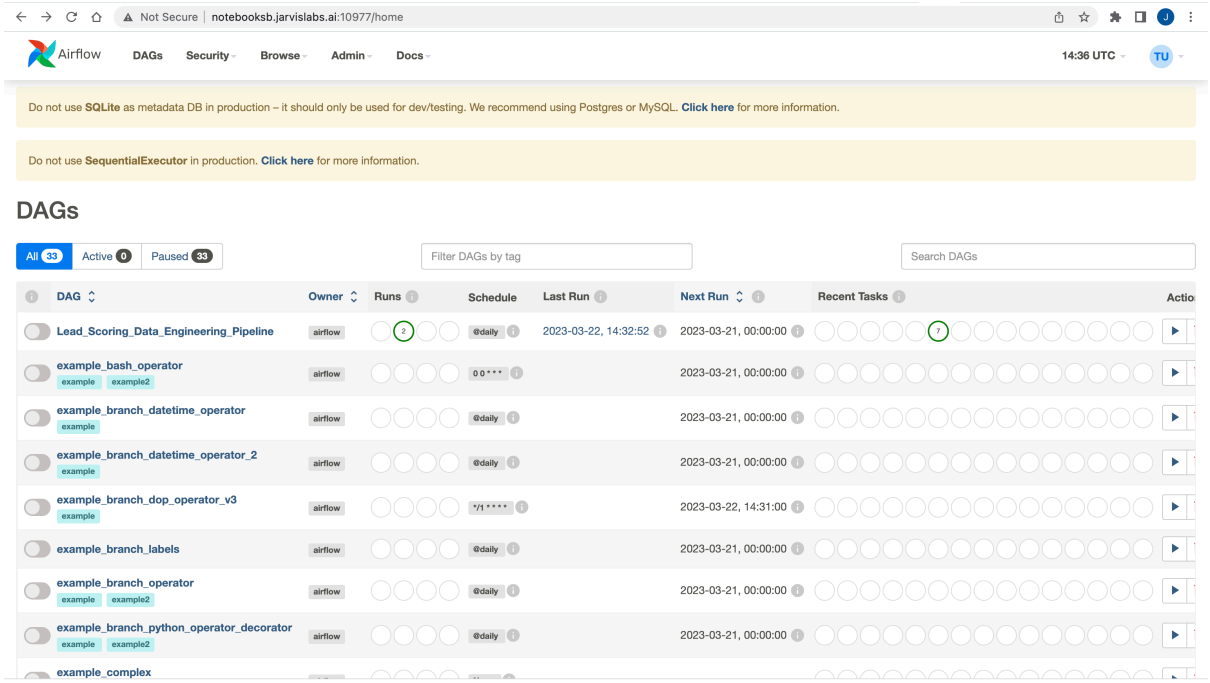
Airflow DAG Grid (Lead_Scoring_Data_Engineering_Pipeline)



Airflow DAG Graph (Lead_Scoring_Data_Engineering_Pipeline)



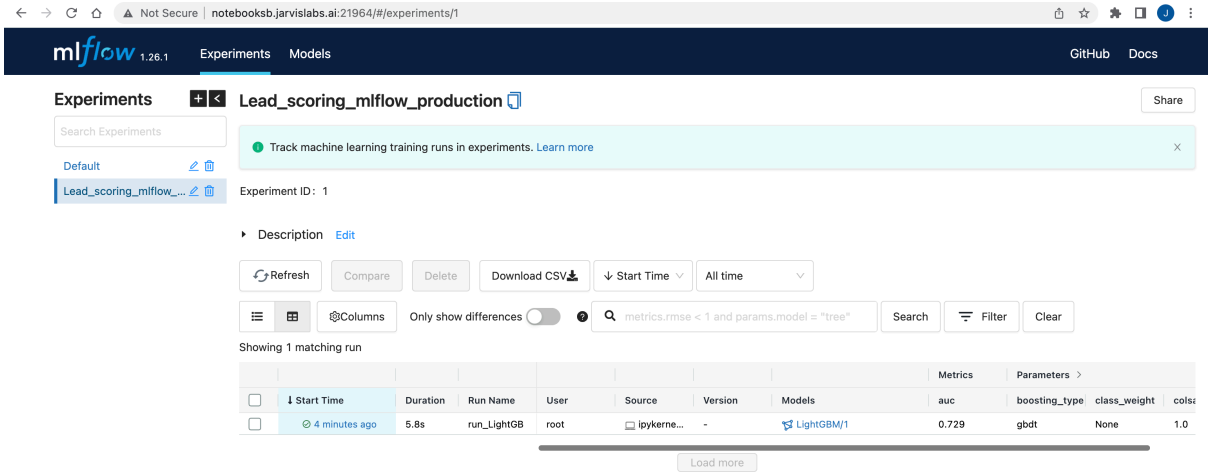
List of AirFlow DAGs



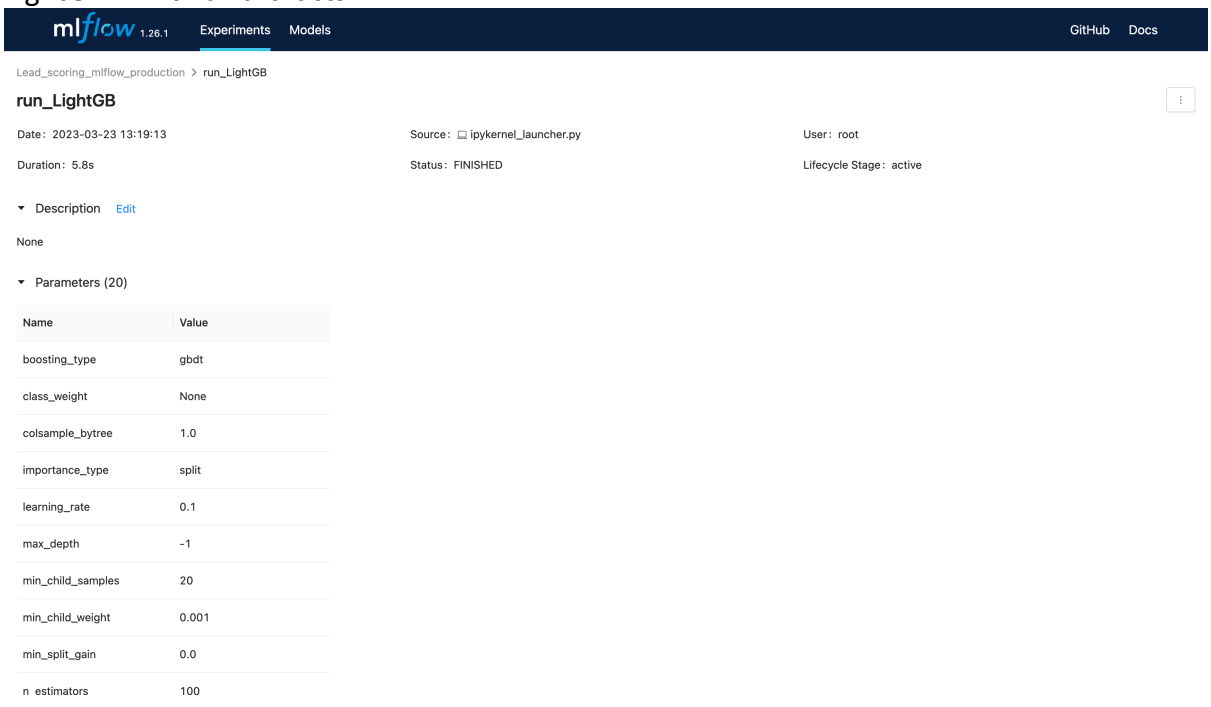
Training Pipeline

ML Flow UI

List of experiments (Lead_scoring_mlflow_production)



LightGBM with all artifacts



Not Secure | notebooksb.jarvislabs.ai:21964/#/experiments/1/runs/9db317ff533242229983ae7cfe5f7f5e

n_estimators	100
n_jobs	-1
num_leaves	31
objective	None
random_state	42
reg_alpha	0.0
reg_lambda	0.0
silent	warn
subsample	1.0
subsample_for_bin	200000
subsample_freq	0

▾ Metrics (1)

Name	Value
auc	0.729

▸ Tags

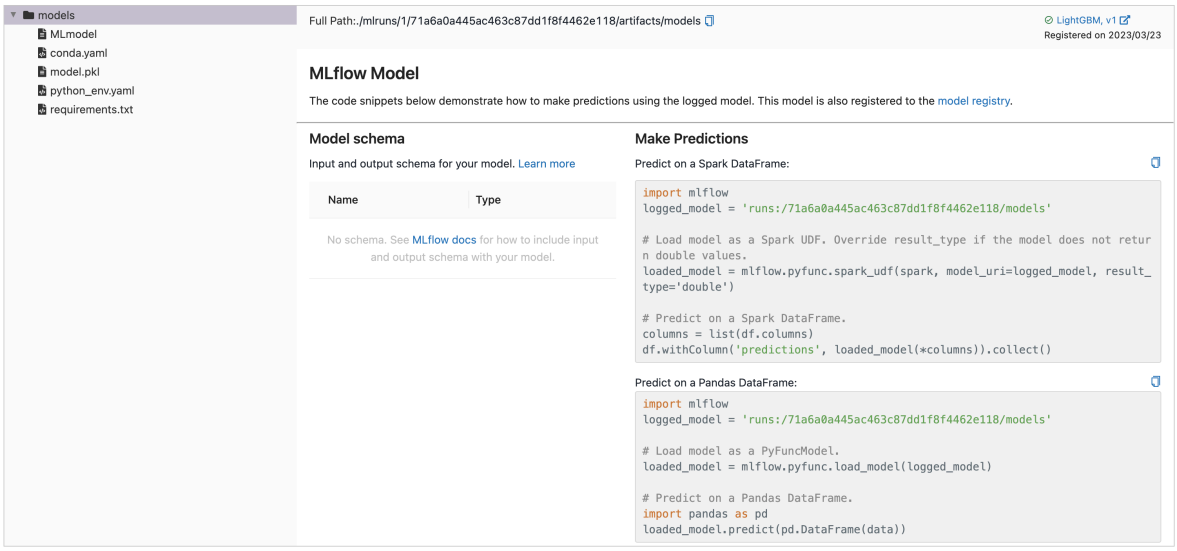
▾ Artifacts

Not Secure | notebooksb.jarvislabs.ai:10976/#/experiments/1/runs/71a6a0a445ac463c87dd1f8f4462e118

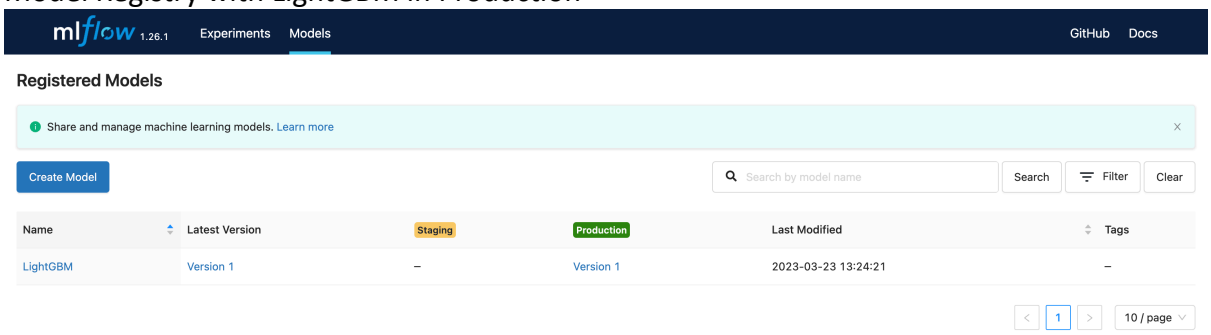
▸ Metrics (1)

▸ Tags

▾ Artifacts

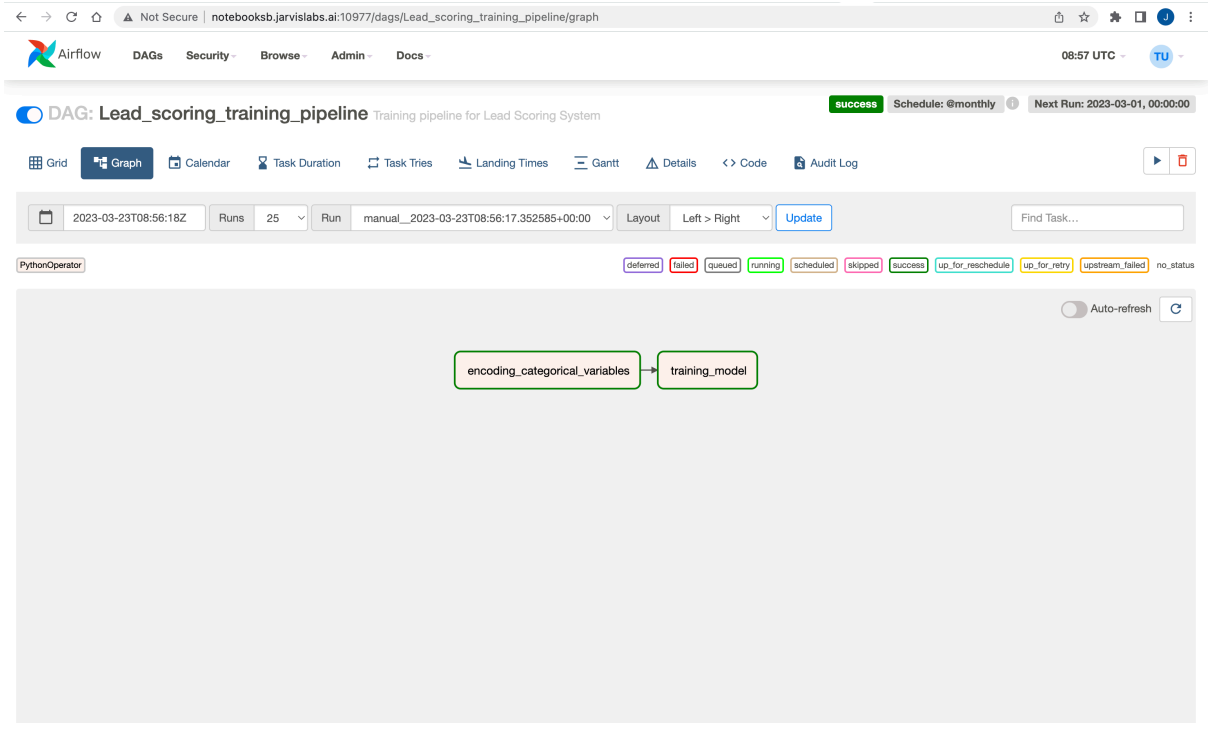


Model Registry with LightGBM in Production

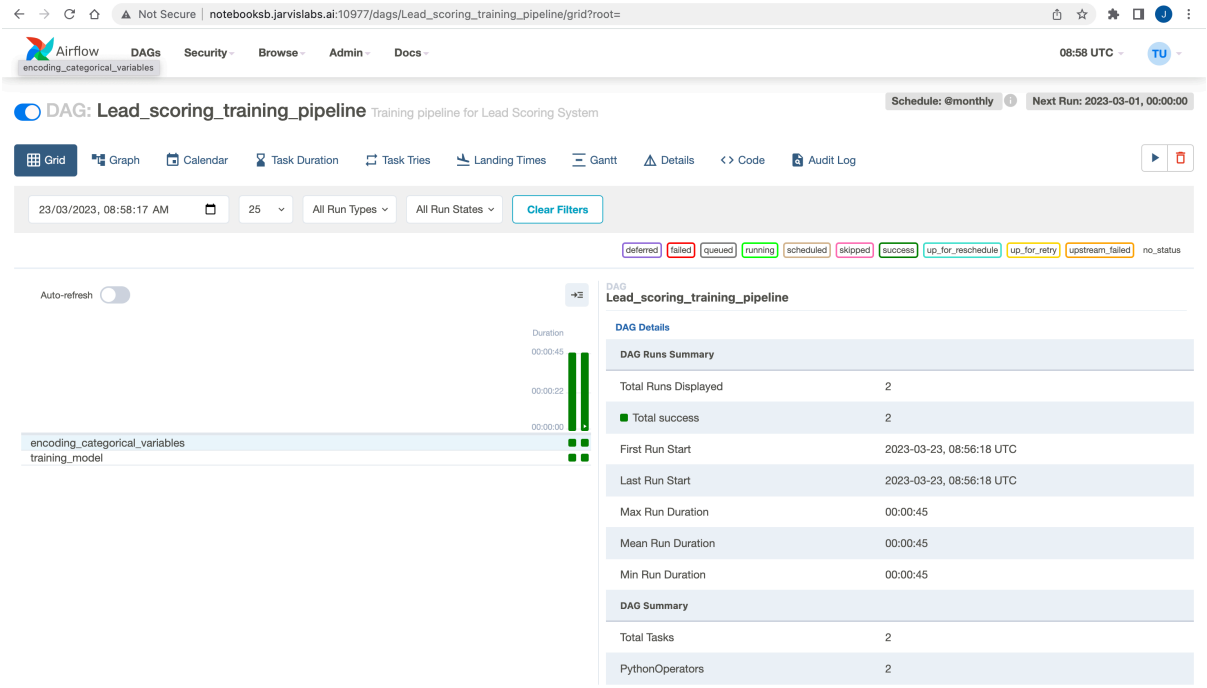


Airflow UI

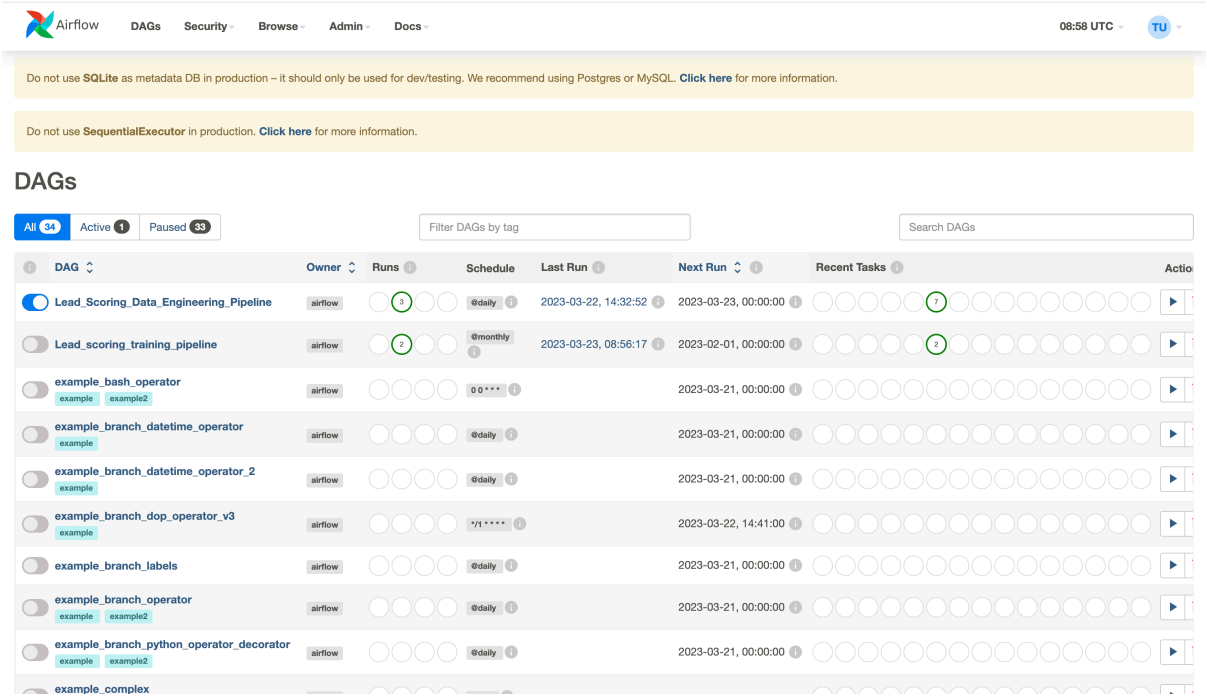
Airflow DAG Graph (Lead_scoring_training_pipeline)



Airflow DAG Grid (Lead_scoring_training_pipeline)



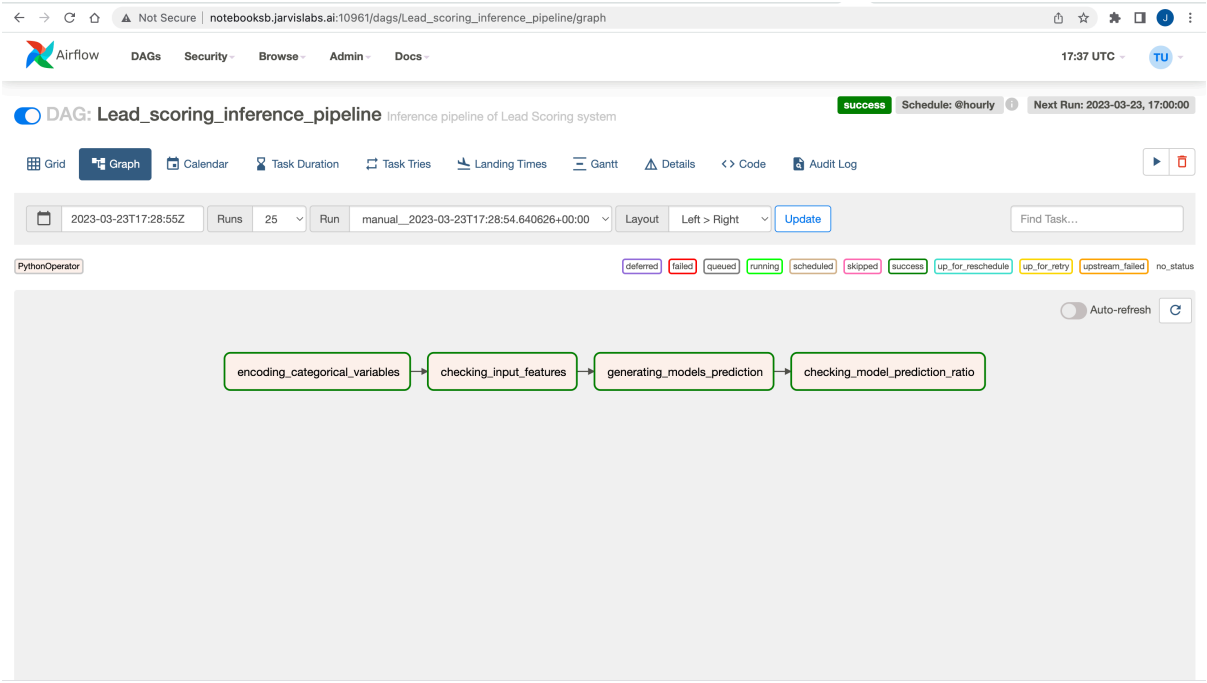
List of all Airflow DAGs



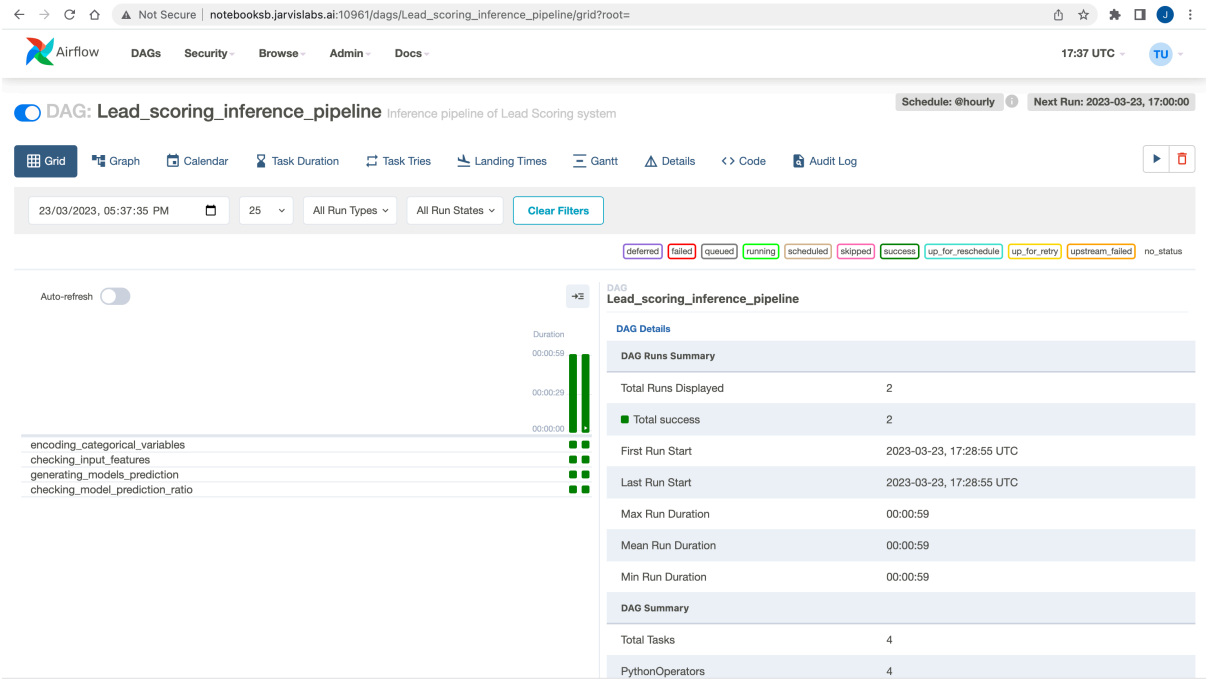
Inference pipeline

Airflow UI

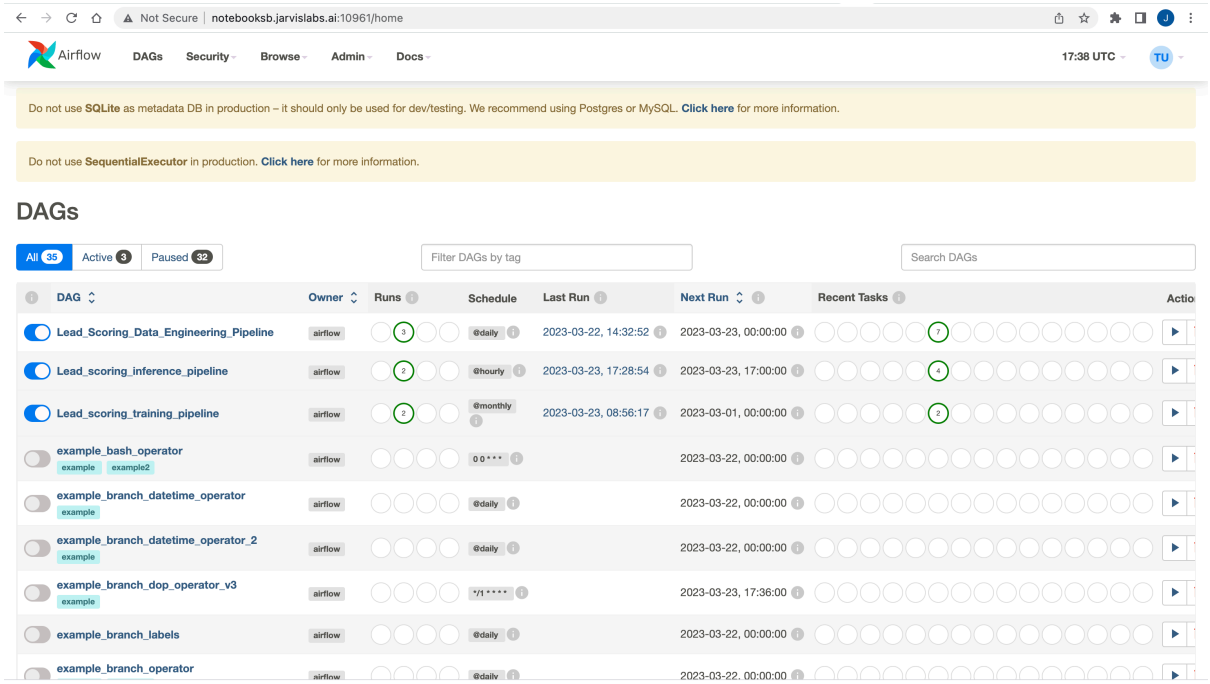
Airflow DAG Graph (Lead_scoring_inference_pipeline)



Airflow DAG Grid (Lead_scoring_inference_pipeline)

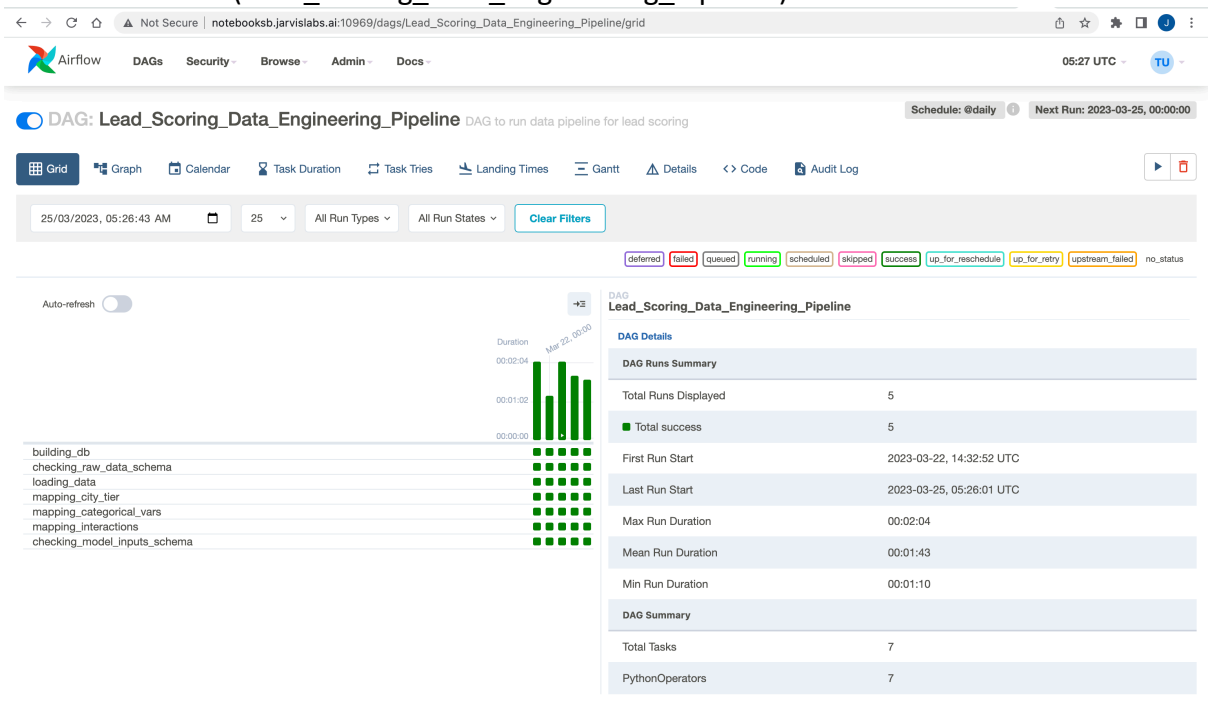


List of all Airflow DAGs

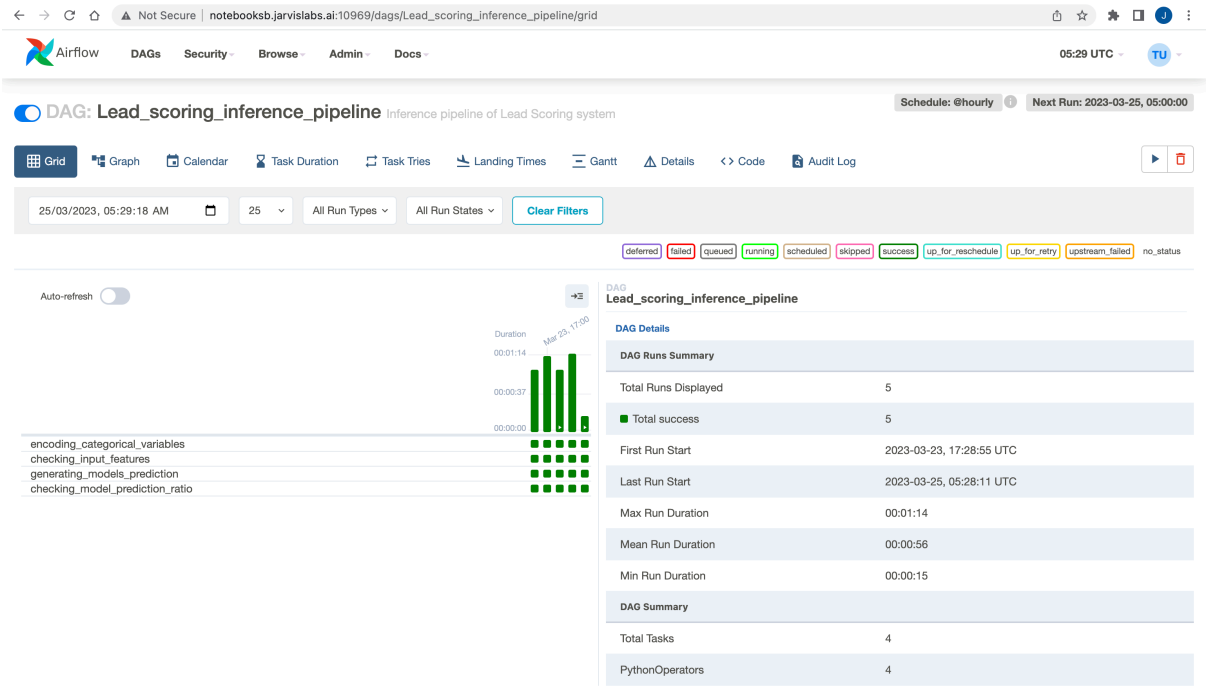


Running on Leadscoring_inference.csv

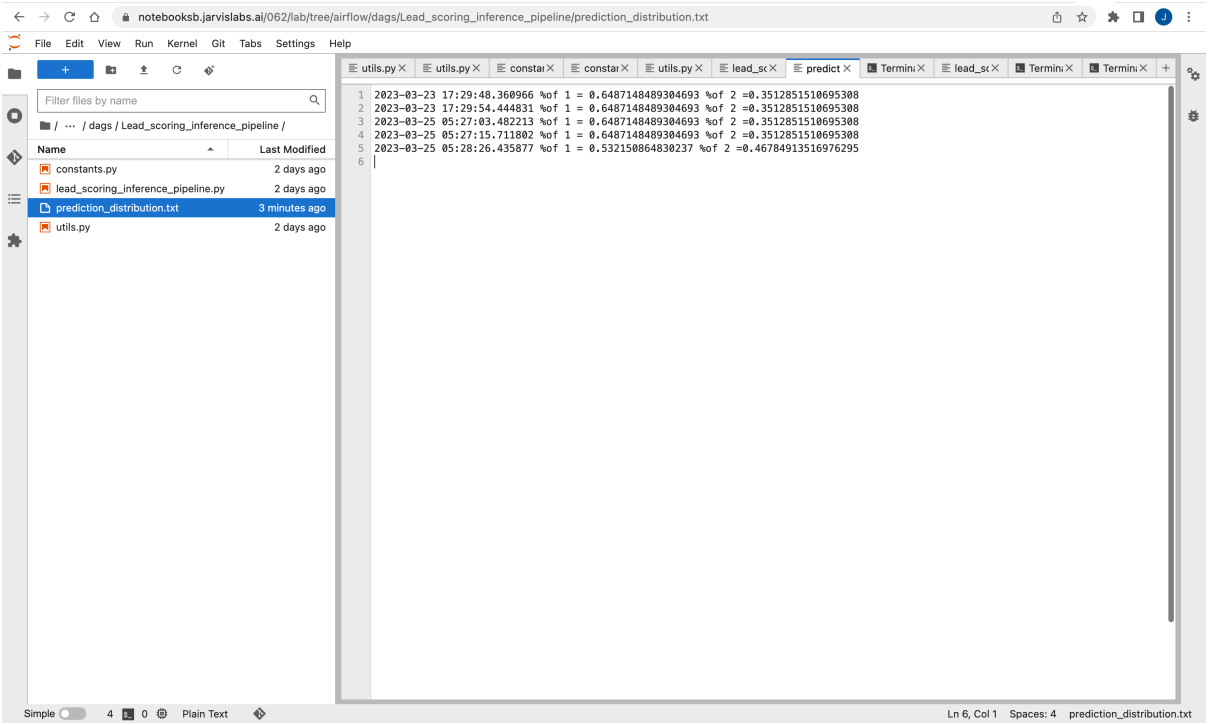
Airflow DAG Grid (Lead_scoring_Data_Engineering_Pipeline)



Airflow DAG Grid (Lead_scoring_inference_pipeline)



Output of prediction_distribution.txt after run on Leadscoring_inference.csv



Unit Test

Four test successful run