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MACHINE LEARNING

Amazon SageMaker

Build, train, and deploy machine learning models at scale

The quickest and easiest way to get ML models from idea to production.

New to SageMaker?

Quick setup for a single user ⓘ
This is perfect for first time users to try capabilities in just a few clicks.
[Set up for single user](#)

Advanced setup for organizations
Customize capabilities, permissions, network, and more for your team to launch Studio.
[Set up for organizations](#)

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Launch end-to-end machine learning solutions that tie SageMaker to other AWS services with one click.

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Financial Services

Document summarization, entity and relationship extraction from text.

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📄 Product Defect Detection

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Product Defect Detection

Identify defective regions in product images.

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Demand forecasting for multi-variate time series using deep learning models.

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Explore All Solutions (22)

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SageMaker JumpStart

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Amazon S3 > Buckets > jumpstart-bkt

jumpstart-bkt

Info

Objects | Properties | Permissions | Metrics | Management | Access Points

Objects (3) Info

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

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Find objects by prefix

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<input type="checkbox"/>	Name ▲	Type ▼	Last modified ▼	Size ▼	Storage class ▼
<input type="checkbox"/>	test/	Folder	-	-	-
<input type="checkbox"/>	train/	Folder	-	-	-
<input type="checkbox"/>	val/	Folder	-	-	-

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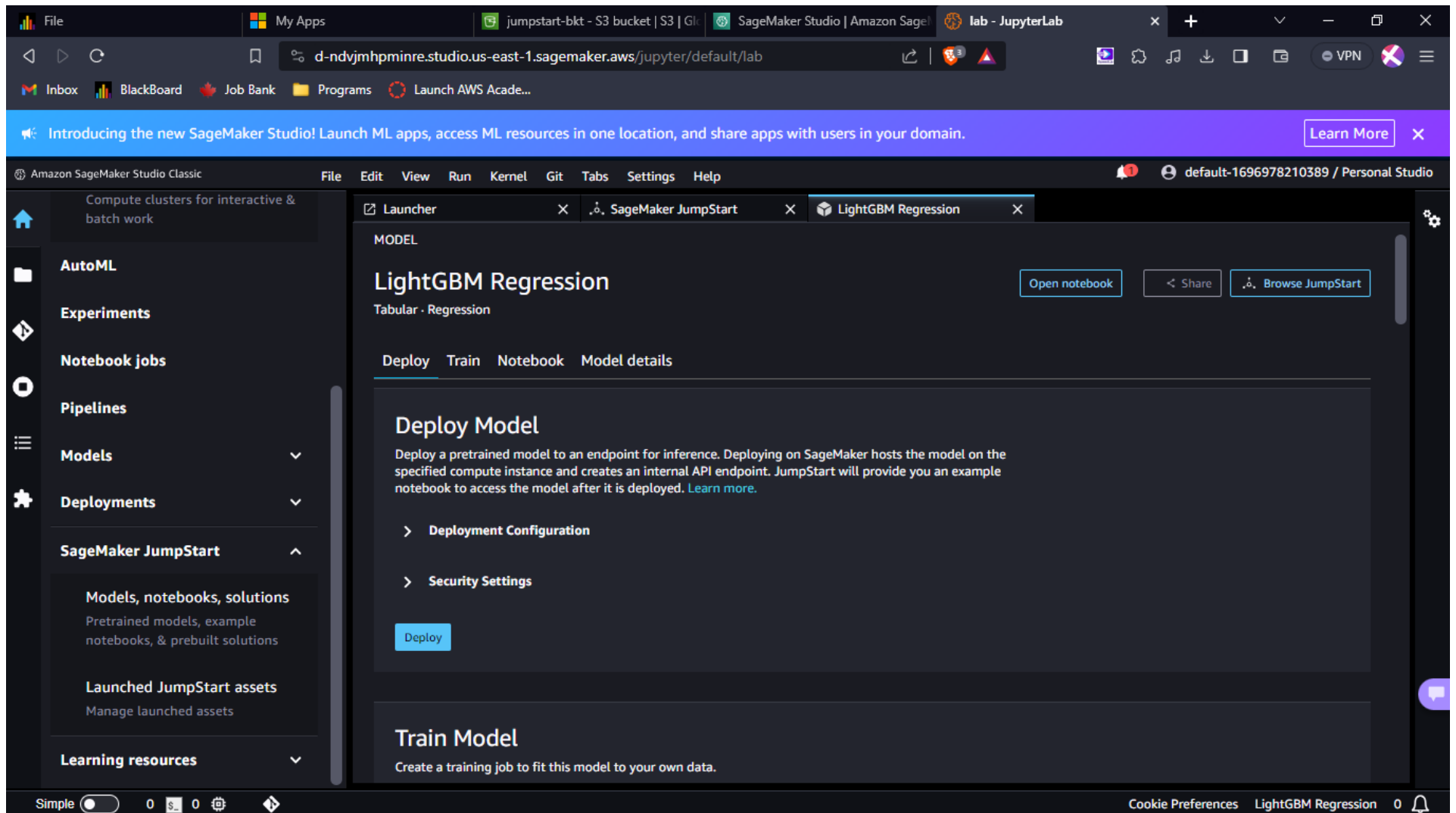
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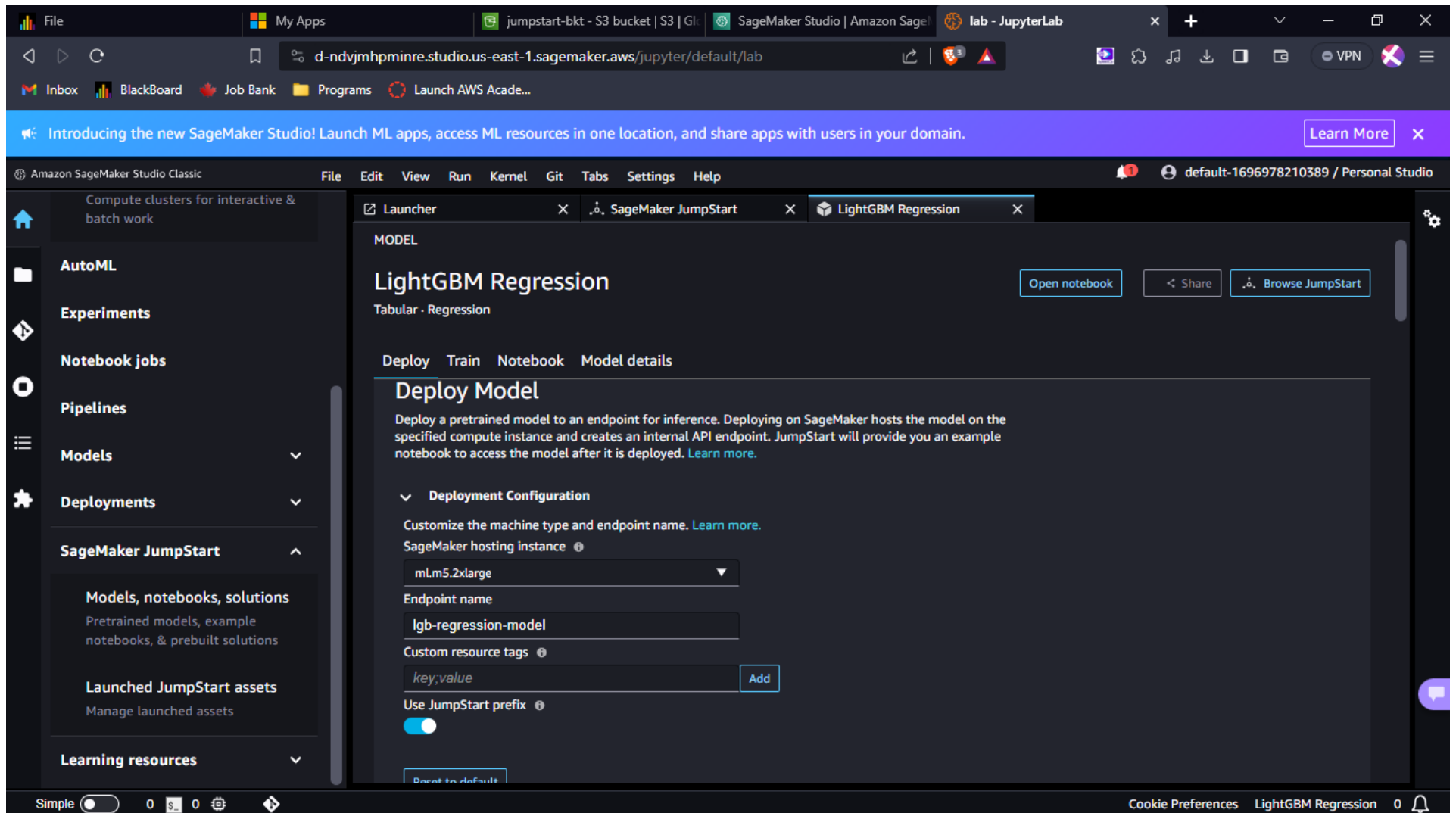
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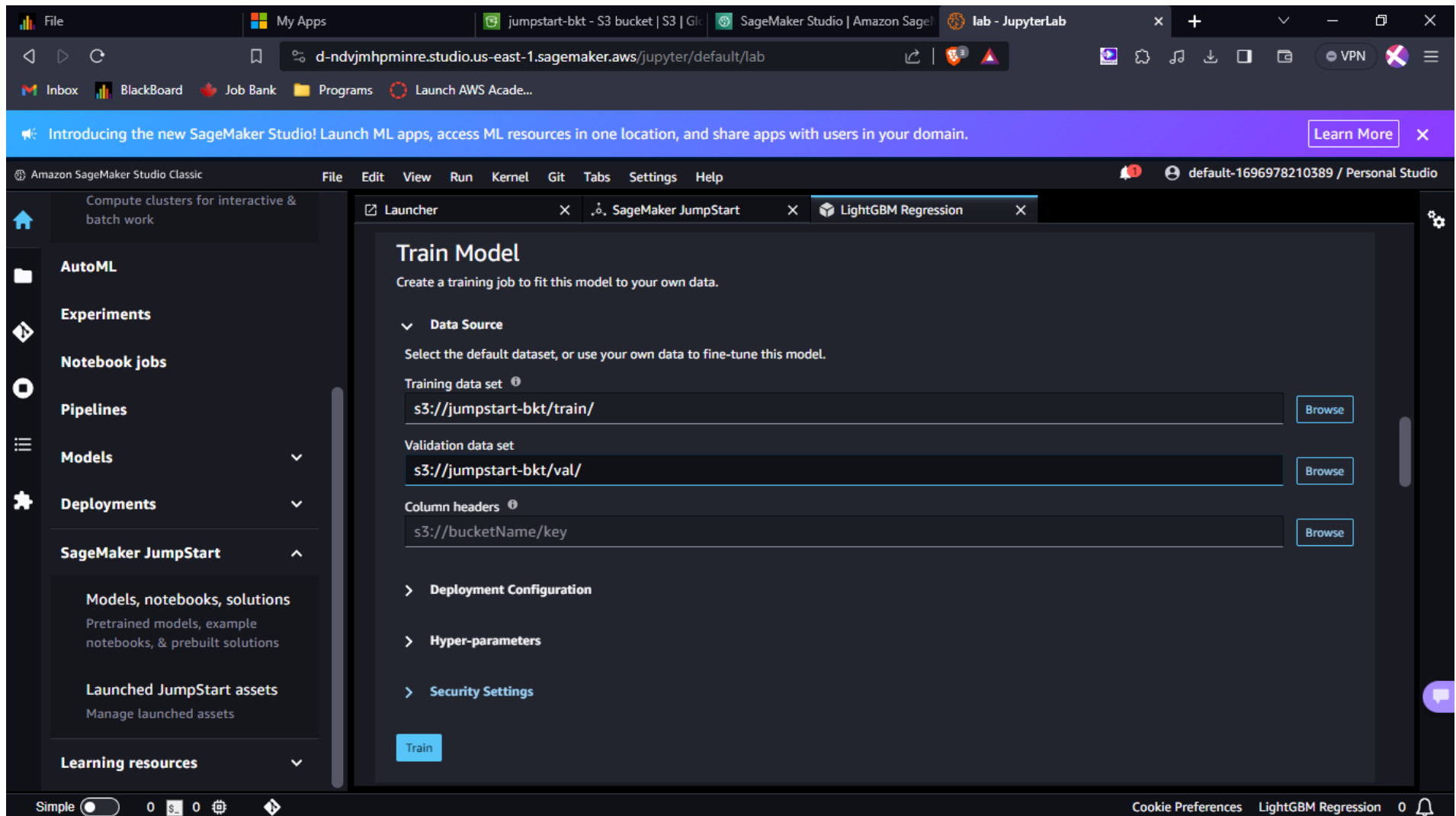
Privacy

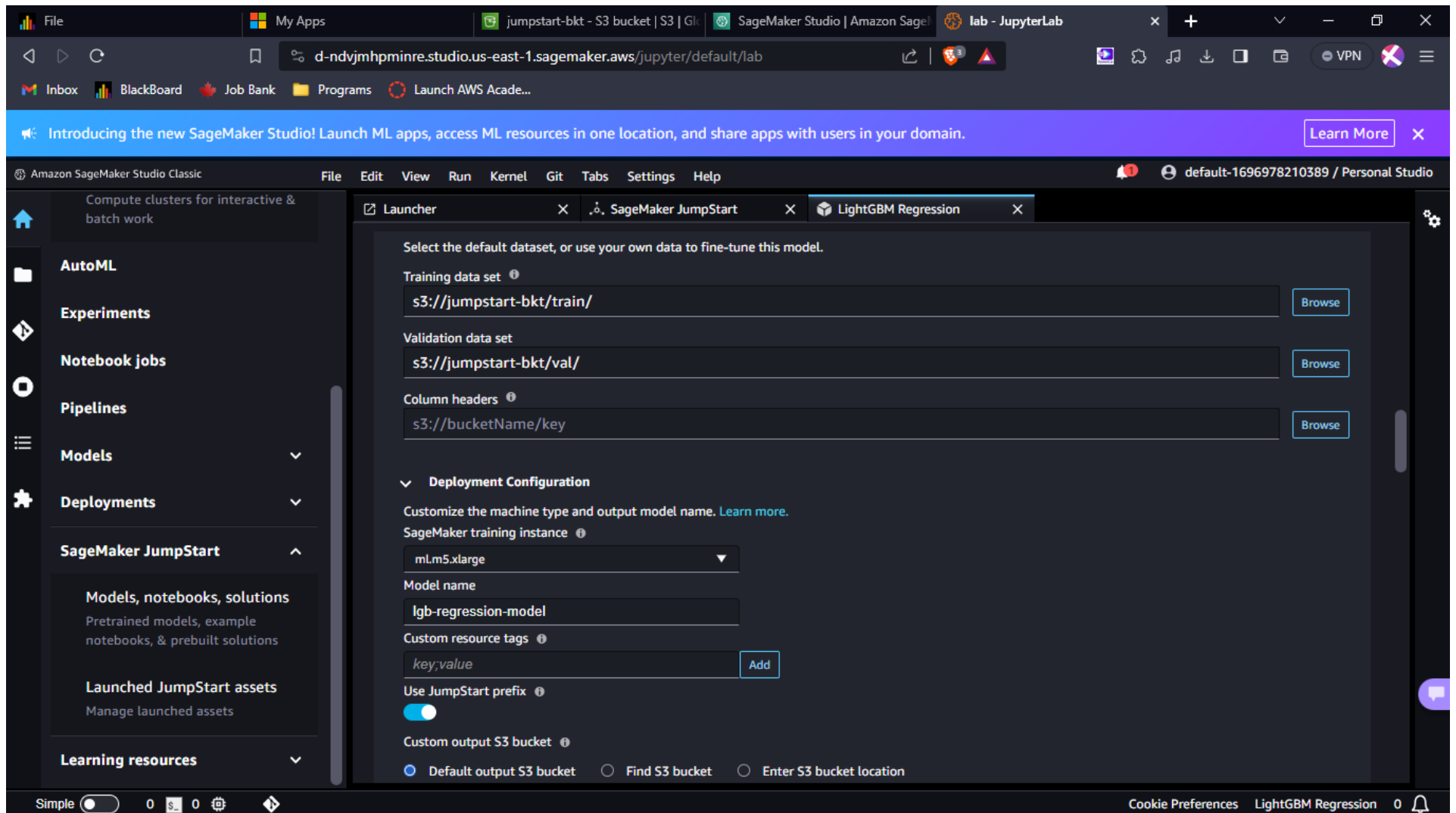
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Training jobs Info

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	Name	Creation time	Duration	Job status	Warm pool status	Time left
	smjs-c-lgb-regression-model-20231204-022636	12/3/2023, 9:26:41 PM	-	InProgress	-	-
	PROJECT-2023-11-24-04-37-25-010-4106e1a4	11/23/2023, 11:43:02 PM	a few seconds	Completed	Terminated	-
	PROJECT-2023-11-24-04-37-25-009-2b7f277a	11/23/2023, 11:43:00 PM	a minute	Completed	Terminated	-
	PROJECT-2023-11-24-04-37-25-008-71d924bb	11/23/2023, 11:42:11 PM	a few seconds	Completed	Reused	-
	PROJECT-2023-11-24-04-37-25-007-9282e366	11/23/2023, 11:42:04 PM	a minute	Completed	Reused	-
	PROJECT-2023-11-24-04-37-25-006-06ba3019	11/23/2023, 11:41:41 PM	a minute	Completed	Terminated	-
	PROJECT-2023-11-24-04-37-25-005-71d924bb	11/23/2023, 11:41:38 PM	a few seconds	Completed	Reused	-

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[332]#011train's rmse: 0.458996#011val's rmse: 0.479539

▶

2023-12-03T22:00:07.207-05:00

[LightGBM] [Warning] No further splits with positive gain, best gain: -inf

▶

2023-12-03T22:00:07.207-05:00

[333]#011train's rmse: 0.45878#011val's rmse: 0.479461

▶

2023-12-03T22:00:07.207-05:00

[LightGBM] [Warning] No further splits with positive gain, best gain: -inf

▶

2023-12-03T22:00:07.207-05:00

[334]#011train's rmse: 0.458735#011val's rmse: 0.479354

▶

2023-12-03T22:00:07.207-05:00

[LightGBM] [Warning] No further splits with positive gain, best gain: -inf

▶

2023-12-03T22:00:07.207-05:00

[335]#011train's rmse: 0.458546#011val's rmse: 0.479296

▶

2023-12-03T22:00:07.207-05:00

[LightGBM] [Warning] No further splits with positive gain, best gain: -inf

▶

2023-12-03T22:00:07.208-05:00

[336]#011train's rmse: 0.458396#011val's rmse: 0.47929

▶

2023-12-03T22:00:07.208-05:00

[LightGBM] [Warning] No further splits with positive gain, best gain: -inf

▶

2023-12-03T22:00:07.208-05:00

[337]#011train's rmse: 0.458309#011val's rmse: 0.479148

▶

2023-12-03T22:00:07.208-05:00

[LightGBM] [Warning] No further splits with positive gain, best gain: -inf

▶

2023-12-03T22:00:07.208-05:00

[338]#011train's rmse: 0.458181#011val's rmse: 0.479029

▶

2023-12-03T22:00:07.208-05:00

[LightGBM] [Warning] No further splits with positive gain, best gain: -inf

▶

2023-12-03T22:00:07.208-05:00

[339]#011train's rmse: 0.458069#011val's rmse: 0.479013

▶

2023-12-03T22:00:07.208-05:00

[LightGBM] [Warning] No further splits with positive gain, best gain: -inf

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The screenshot displays the Amazon SageMaker Studio Classic web interface. At the top, a navigation bar includes tabs for File, My Apps, Console, jumpstart, smjs-c-lg, CloudW, Notebo, Home, Advance, lab, New Tab, Cloud C, and Untitled. Below this is a purple banner announcing the new SageMaker Studio! interface. The main interface has a dark theme and a sidebar on the left with navigation options: AutoML, Experiments, Notebook jobs, Pipelines, Models, Deployments, SageMaker JumpStart, and Learning resources. The central pane shows the 'TRAINING JOB' details for 'smjs-c-lgb-regression-model-20231204-025715'. The job status is 'Complete', and a message states: 'The training job that fitted the model to your data is complete. It created a new model and uploaded it to Amazon S3. From here you can see information about the model and deploy the model to an endpoint. You can also access this model from the AWS SageMaker console.' Below this, the 'Training job details' are listed in a table:

Logs	Training job details
Base model	LightGBM Regression
Model task	regression
Training job name	smjs-c-lgb-regression-model-20231204-025715
Training job arn	arn:aws:sagemaker:us-east-1:277607018592:training-job/smjs-c-lgb-regression-model-20231204-025715
Training time	~3 minutes
Output path	s3://sagemaker-us-east-1-277607018592/smjs-c-lgb-regression-model-20231204-025715/output/model.tar.gz

At the bottom of the training job details, there are expandable sections for 'Instance Settings' and 'Hyper Parameters'. The bottom status bar shows 'Simple' mode, resource usage (0 CPU, 0 GPU, 0 Memory), and a 'Cookie Preferences' link.

Amazon S3

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sagemaker-us-east-1-277607018592

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smjs-c-lgb-regression-model-20231204-025715/

📄 Copy S3 URI

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Objects (3) Info

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

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<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	📁 debug-output/	Folder	-	-	-
<input type="checkbox"/>	📁 output/	Folder	-	-	-
<input type="checkbox"/>	📁 profiler-output/	Folder	-	-	-

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	Name ▼	ARN ▼	Creation time ▼	Status ▼	Last updated ▼
○	jumpstart-ffc-lgb-regression-model	arn:aws:sagemaker:us-east-1:277607018592:endpoint/jumpstart-ffc-lgb-regression-model	12/3/2023, 10:06:09 PM	✔ InService	12/3/2023, 10:08:39 PM

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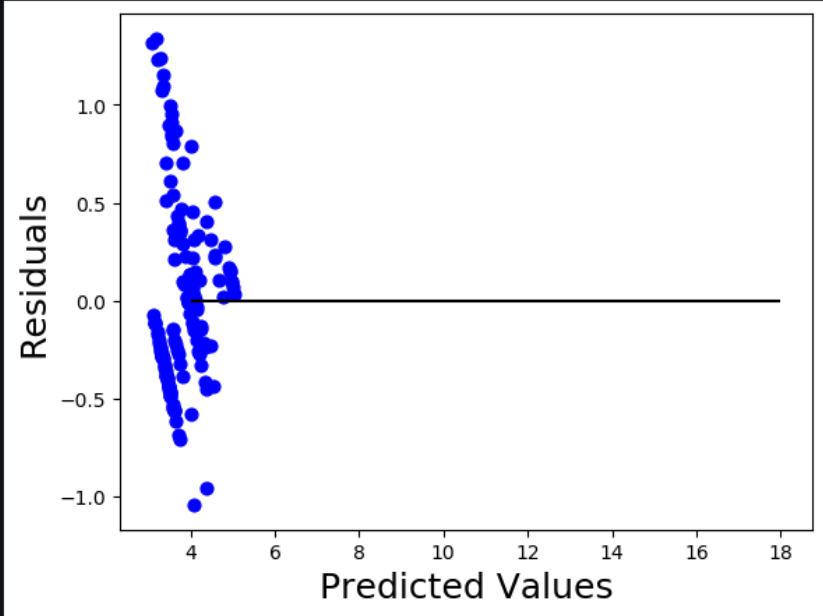
Optimize inference cost & performance

Endpoints

Manage deployed models

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CodeData SciencePython 32 vCPU + 4 GiBShare



A scatter plot showing the relationship between Predicted Values (x-axis, ranging from 4 to 18) and Residuals (y-axis, ranging from -1.0 to 1.0). The data points are blue dots, mostly clustered between predicted values of 4 and 6, with residuals ranging from approximately -1.0 to 1.0. There is a horizontal line at y=0.0.

[71]: # Evaluate the model predictions quantitatively.

Simple01Python 3 (Data Science) | IdleKernel: Idle | Instance MEM

Cookie PreferencesMode: CommandLn 1, Col 1lightgbm-regression-model.ipynb0

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CodeClusterData SciencePython 32 vCPU + 4 GiBShare

Predicted Values

[7]: # Evaluate the model predictions quantitatively.
eval_r2_score = r2_score(ground_truth_label.values, model_predictions)
eval_mse_score = mean_squared_error(ground_truth_label.values, model_predictions)
eval_mae_score = mean_absolute_error(ground_truth_label.values, model_predictions)
print(
 f"{bold}Evaluation result on test data{unbold}:{newline}"
 f"{bold}{r2_score.__name__}{unbold}: {eval_r2_score}{newline}"
 f"{bold}{mean_squared_error.__name__}{unbold}: {eval_mse_score}{newline}"
 f"{bold}{mean_absolute_error.__name__}{unbold}: {eval_mae_score}{newline}"
)

Evaluation result on test data:
r2_score: 0.46083440781061213
mean_squared_error: 0.22933388902569715
mean_absolute_error: 0.37350811046309434

[]:

Simple0\$1Python 3 (Data Science) | IdleKernel: Idle | Instance MEMCookie PreferencesMode: CommandLn 1, Col 1lightgbm-regression-model.ipynb0

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Name	ARN	Creation time	Status	Last updated
There are currently no resources.				

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