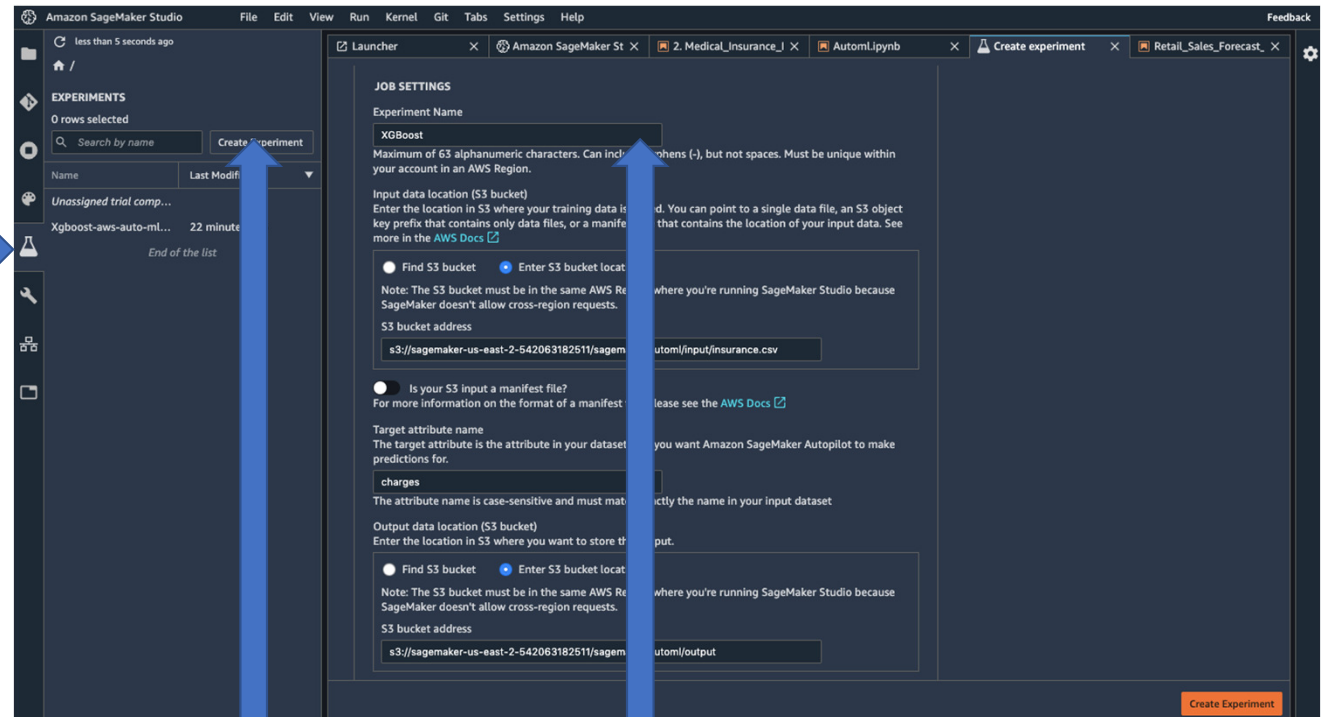


AMAZON SAGEMAKER AUTOPILOT

1. CLICK ON THIS



2. CLICK ON CREATE
EXPERIMENT

3. PROVIDE A NAME FOR
THE EXPERIMENT

AMAZON SAGEMAKER AUTOPILOT

Create Amazon SageMaker Autopilot Experiment

JOB SETTINGS

Experiment Name

Maximum of 63 alphanumeric characters. Can include hyphens (-), but not spaces. Must be unique within your account in an AWS Region.

Input data location (S3 bucket)
Enter the location in S3 where your training data is stored. You can point to a single data file, an S3 object key prefix that contains only data files, or a manifest file that contains the location of your input data. See more in the [AWS Docs](#)

☐ Find S3 bucket ☒ Enter S3 bucket location
Note: The S3 bucket must be in the same AWS Region where you're running SageMaker Studio because SageMaker doesn't allow cross-region requests.

S3 bucket address

☐ Is your S3 input a manifest file?
For more information on the format of a manifest file, please see the [AWS Docs](#)

Target attribute name
The target attribute is the attribute in your dataset that you want Amazon SageMaker Autopilot to make predictions for.

The attribute name is case-sensitive and must match exactly the name in your input dataset

Output data location (S3 bucket)
Enter the location in S3 where you want to store the output.

☐ Find S3 bucket ☒ Enter S3 bucket location
Note: The S3 bucket must be in the same AWS Region where you're running SageMaker Studio because SageMaker doesn't allow cross-region requests.

S3 bucket address

Select the machine learning problem type

☐ Auto
☒ Binary classification
☐ Regression
☐ Multiclass classification

Objective metric

Do you want to run a complete experiment?
☒ Yes

SELECT "ENTER S3 BUCKET LOCATION"

PROVIDE THE LOCATION OF TRAIN DATA IN S3 (CAN BE FOUND IN .IPYNB NOTEBOOK)

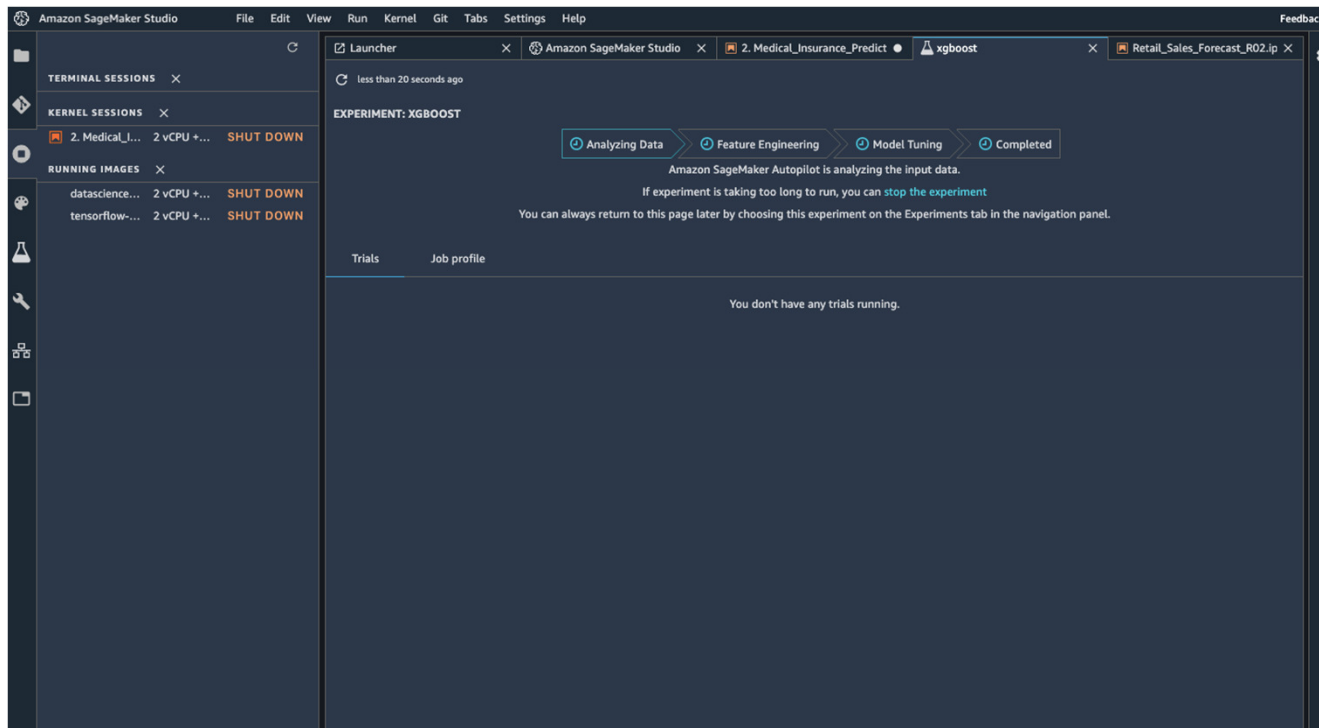
PROVIDE THE COLUMN NAME OF TARGET VARIABLE

SELECT "ENTER S3 BUCKET LOCATION"

PROVIDE THE PATH TO STORE THE OUTPUT IN S3 (CAN BE FOUND IN .IPYNB NOTEBOOK)

SELECT IF REGRESSION OR CLASSIFICATION

AMAZON SAGEMAKER AUTOPILOT

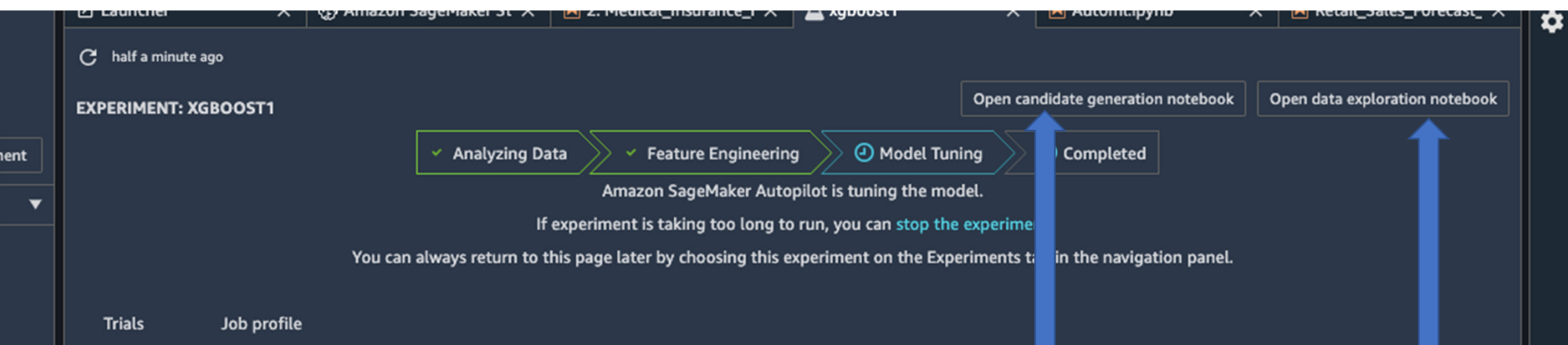


AFTER CREATING EXPERIMENT, YOU SHOULD SEE SOMETHING LIKE THIS.

IT WOULD TAKE AROUND 2 HOURS TO COMPLETE. THIS IS BECAUSE BY-DEFAULT IT WOULD RUN 250 TUNING JOBS TO FIGURE-OUT THE BEST HYPER-PARAMETER

AMAZON SAGEMAKER AUTOPILOT

Once first 2 steps are completed, you can view candidate generation notebook and data exploration notebook.



CLICK ON THESE TO OPEN RESPECTIVE NOTEBOOKS.

NOTE: GENERATED NOTEBOOKS FROM OUR EXPERIMENT ARE PROVIDED FOR REFERENCE.

AMAZON SAGEMAKER AUTOPILOT

Amazon SageMaker Studio

File Edit View Run Kernel Git Tabs Settings Help

about 2 hours ago

AI_in_Business_final.pyrnb AI_in_Business_autopilot.j... ai-in-business-autopilot Create experiment SageMakerAutopilotDataB SageMakerAutopilotCandc Deploy model SageMakerAutopilo

EXPERIMENTS

0 rows selected

Search by name

Create Experiment

Name

Unsigned trial components

AI-in-Business-autopilot-1-aws-auto-m...

AI-in-business-autopilot-aws-auto-ml-j...

sagemaker-practical-xgboost-2-aws-au...

sagemaker-practical-xgboost-aws-auto...

End of the list

EXPERIMENT: AI-IN-BUSINESS-AUTOPILOT

Open candidate generation

Trials Job profile

TRIALS

1 row selected

| Trial name | Status | Start time | Objective |
|---|-----------|-------------|--------------------|
| ★ Best: tuning-job-1-458405b9175482993-106-fcdf537f | Completed | 3 hours ago | 0.8295000195503235 |
| tuning-job-1-458405b9175482993-204-f699bc21 | Completed | 2 hours ago | 0.8286700248718262 |
| tuning-job-1-458405b9175482993-145-a472f54d | Completed | 3 hours ago | 0.828499972820282 |
| tuning-job-1-458405b9175482993-240-05f7f5e4 | Completed | 2 hours ago | 0.8283299803733826 |
| tuning-job-1-458405b9175482993-078-1bdf6d15 | Completed | 3 hours ago | 0.8283299803733826 |
| tuning-job-1-458405b9175482993-015-7fc8d320 | Completed | 3 hours ago | 0.8281700015068054 |
| tuning-job-1-458405b9175482993-203-8692d67d | Completed | 2 hours ago | 0.8281700015068054 |
| tuning-job-1-458405b9175482993-189-7c64de82 | Completed | 2 hours ago | 0.828000009059906 |
| tuning-job-1-458405b9175482993-227-4707b42c | Completed | 2 hours ago | 0.828000009059906 |
| tuning-job-1-458405b9175482993-245-adc46278 | Completed | 2 hours ago | 0.8278300166130066 |
| tuning-job-1-458405b9175482993-103-04309b4c | Completed | 3 hours ago | 0.8278300166130066 |
| tuning-job-1-458405b9175482993-012-a9449b9b | Completed | 3 hours ago | 0.8276699781417847 |
| tuning-job-1-458405b9175482993-137-d154ad2d | Completed | 3 hours ago | 0.8276699781417847 |
| tuning-job-1-458405b9175482993-226-857e19f4 | Completed | 2 hours ago | 0.8276699781417847 |
| tuning-job-1-458405b9175482993-188-a70384aa | Completed | 2 hours ago | 0.8276699781417847 |
| tuning-job-1-458405b9175482993-247-0f6e3f69 | Completed | 2 hours ago | 0.8274999856948853 |
| tuning-job-1-458405b9175482993-191-44857475 | Completed | 2 hours ago | 0.8274999856948853 |
| tuning-job-1-458405b9175482993-121-f53afb3e | Completed | 3 hours ago | 0.8274999856948853 |
| tuning-job-1-458405b9175482993-094-4eb02a00 | Completed | 3 hours ago | 0.8274999856948853 |
| tuning-job-1-458405b9175482993-246-b4efc25a | Completed | 2 hours ago | 0.8274999856948853 |
| tuning-job-1-458405b9175482993-058-7282421c | Completed | 3 hours ago | 0.8274999856948853 |
| tuning-job-1-458405b9175482993-110-a64b2f27 | Completed | 3 hours ago | 0.8274999856948853 |
| tuning-job-1-458405b9175482993-005-c5f3f789 | Completed | 3 hours ago | 0.8274999856948853 |
| tuning-job-1-458405b9175482993-148-d035832f | Completed | 3 hours ago | 0.8274999856948853 |

ONCE THE JOB IS COMPLETED, YOU CAN SELECT THE BEST MODEL AND THEN CLICK ON DEPLOY MODEL TO DEPLOY.

AMAZON SAGEMAKER AUTOPILOT

Deploy model

REQUIRED SETTINGS

Endpoint name
xgboost-endpoint
Maximum of 63 alphanumeric characters. Can include hyphens (-), but not spaces. Must be unique within your account in an AWS Region.

Instance type
ml.m5.xlarge

Instance count
1

Data capture
SageMaker Studio will save prediction requests and responses from the endpoint to an Amazon S3 location specified below

☐ Save prediction requests

☐ Save prediction responses

ADVANCED SETTINGS - Optional

Deploy model

PROVIDE THE NAME FOR END-POINT

SELECT THE INSTANCE TYPE AND THE NUMBER OF INSTANCE

CLICK TO DEPLOY THE MODEL