

# **Amazon SageMaker Canvas Workshop**

Michael Lin  
Sr. Solutions Architect  
Amazon Web Services



**<https://t.ly/XDKrO>**



## Sign in

Choose a preferred sign-in method

**Email one-time password (OTP)**

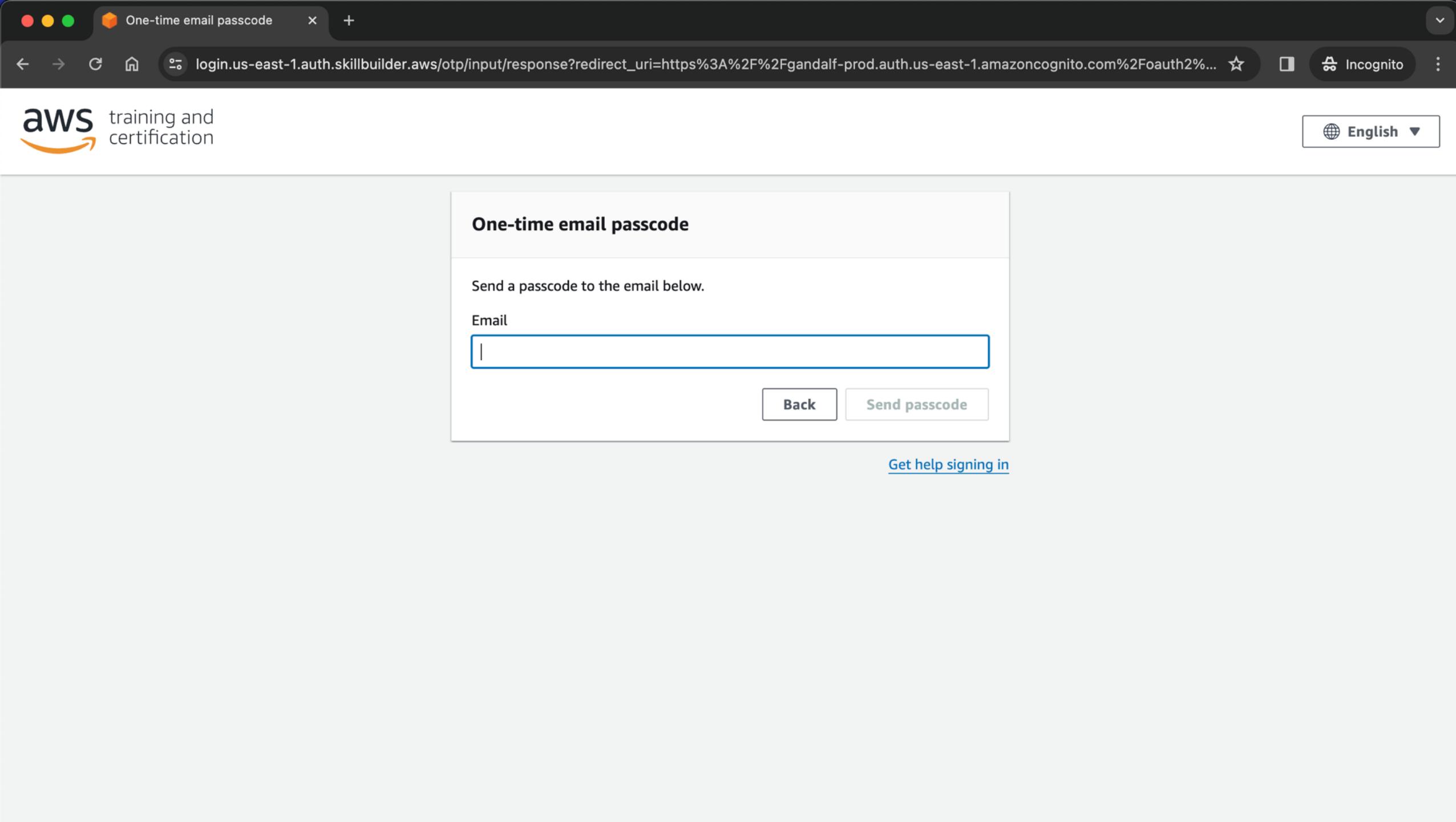
Enter your personal or corporate email to receive a one-time password

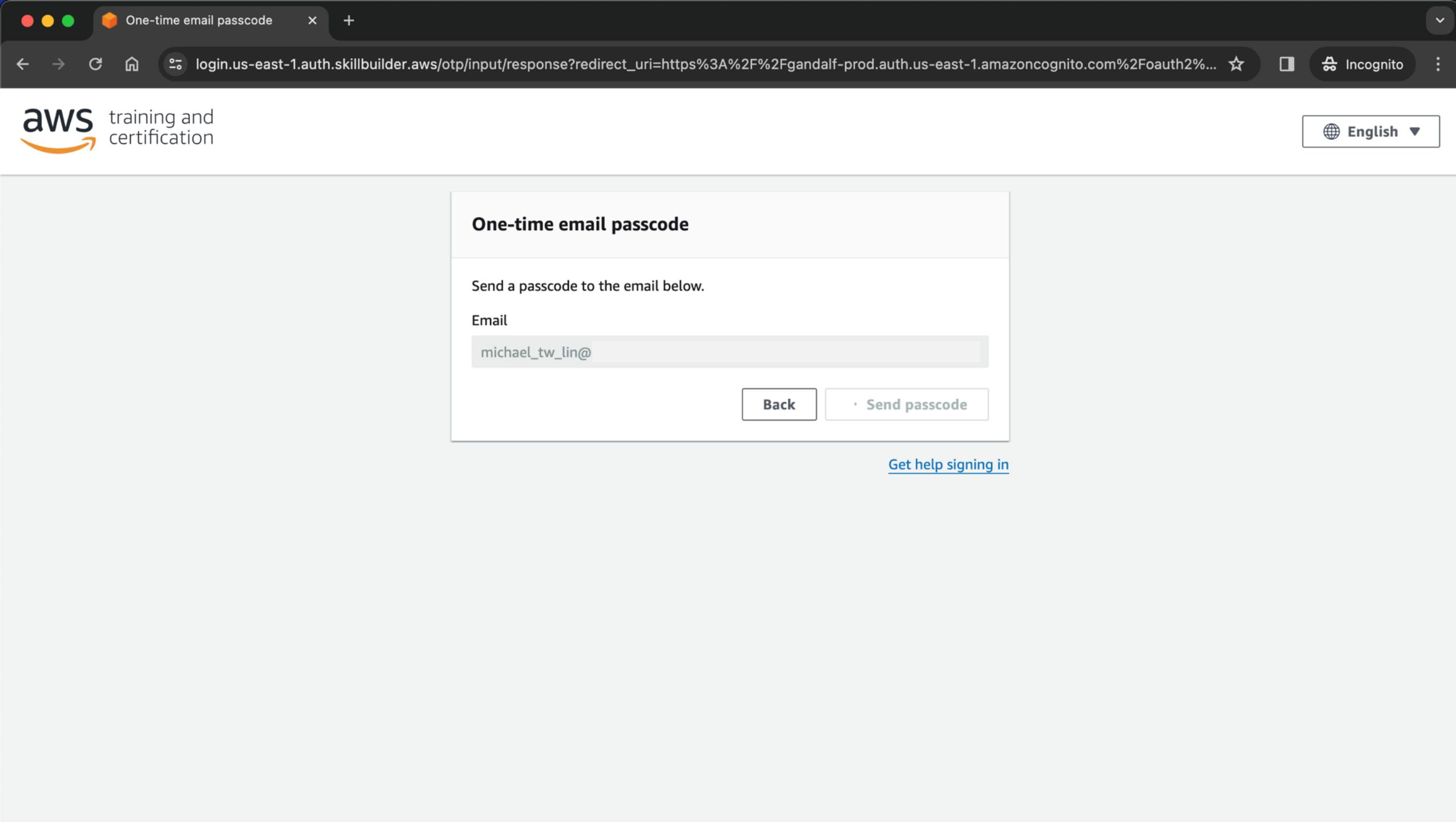
**AWS Builder ID**

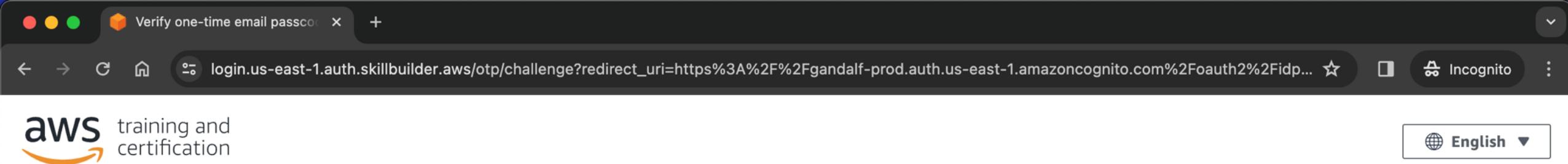
Login with AWS Builder ID, a new personal profile for builders

**Amazon employee**

Login with your Amazon Corporate account. Only for Amazon Employees.







English ▾

## One-time email passcode

We sent a passcode to michael\_tw\_lin@msn.com. You should receive it within 5 minutes.

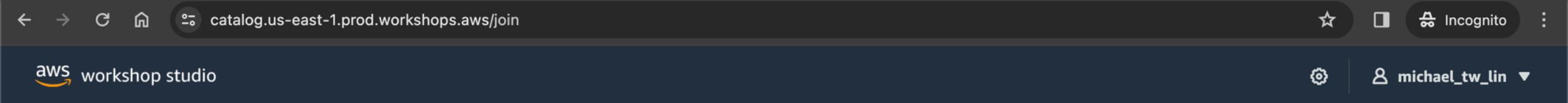
Passcode (9-digit) | [Resend passcode](#)

666882875

Back

Sign in

[Get help signing in](#)



aws workshop studio



michael\_tw\_lin ▾

[Workshop Studio](#) > Join event

Step 1

**Enter event access code**

Step 2

Review and join

## Enter event access code

### Event access code

**Event access code**

A 12 digit code that was given to you for this event

caa0-040ce3-4a

Cancel

Next

[Workshop Studio](#) > Join event

Step 1

[Enter event access code](#)

Step 2

[Review and join](#)

## Review and join

### Event details

Name	Start time	Duration	Level
nwa-canvas-dryrun	2/01/2024 03:18 PM	72 hours	200

### Description

nwa-canvas-dryrun

### Terms and Conditions

Read and accept before joining the event

Read and accept before joining the event:

1. By using AWS Workshop Studio for the relevant event, You agree to [the AWS Event Terms and Conditions](#), the [AWS Responsible AI Policy](#), and the [AWS Acceptable Use Policy](#).
2. If You are under 18 years old, you may participate in the relevant event using AWS Workshop Studio: (a) if You are at least the minimum age below based on the country or region in which You reside, and (b) with the involvement of a parent, guardian, or educator.



Country or region	Minimum age
-------------------	-------------

catalog.us-east-1.prod.workshops.aws/join

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4. During the relevant event, while using this AWS-owned account, You will not use, import, input, or introduce any data, dataset, or other material that contains personal data, financial information, or any other data or materials that may be subject to laws and regulations (such as the General Data Protection Regulation or The Health Insurance Portability and Accountability Act of 1996).

5. If You find residual resources or materials in this AWS-owned account, You will notify your Event Operator immediately.

6. AWS, its affiliates, and any entities or persons acting on AWS's behalf reserves the right to terminate this AWS-owned account and to delete its contents at any time, without any notice to You.

7. During the relevant event, while using this AWS-owned account, You will not process or run any operation on any data other than test datasets or lab materials that have been approved by AWS.

8. You will not copy, import, export or otherwise create derivative works of materials provided by AWS for use outside of the relevant event.

9. AWS, its affiliates, and any entities or persons acting on AWS's behalf have no obligation to enable the transmission of Your materials through AWS Workshop Studio, and may, in their discretion, edit, block, refuse to post, or remove Your materials at any time, without notice to You.

10. If You access and use a service and/or third-party models that have their own terms during the relevant event, while in the AWS-owned account, You agree to review those terms and comply with them during the event.

11. If You are an AWS Partner using AWS Workshop Studio as part of Your participation in the AWS Partner Network Program, Your use of AWS Workshop Studio is governed by these terms, the AWS Partner Network Terms and Conditions, and the AWS Customer Agreement or other agreement with us governing your use of AWS Services.

12. Your use of AWS Workshop Studio will comply with these terms and all applicable laws. If You fail to comply with any of these terms, Your access to AWS Workshop Studio may be immediately terminated, without notice to You.

I agree with the Terms and Conditions

Cancel Previous Join event

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I agree with the Terms and Conditions

Cancel Previous Join event

catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US

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## nwa-canvas-dryrun

Amazon SageMaker Canvas Immersion Day

- What is Amazon SageMaker Canvas?
- Prerequisites
- Use case labs
- Technology Labs
- Generative AI
- Changelog and Updates

AWS account access

- Open AWS console (us-east-1)
- Get AWS CLI credentials

Content preferences

- Language: English

Exit event

Event ends in 2 days 16 hours 53 minutes.

Event dashboard > Amazon SageMaker Canvas Immersion Day

### Event information

Start time	Duration	Accessible regions
2/01/2024 03:18 PM	72 hours	us-east-1

Description  
nwa-canvas-dryrun

### Workshop

Get started >

Title	Complexity level	AWS services	Topics
Amazon SageMaker Canvas Immersion Day	200	Amazon SageMaker	Machine Learning (ML/AI)

Description  
A 4-hours Immersion day that goes through the details of Amazon SageMaker Canvas, the different features it comprises, and the different use cases it helps solve. Note: if you don't wait for the output of every Standard Build, this workshop can take even less than the suggested time.

catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US

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## nwa-canvas-dryrun

Amazon SageMaker Canvas Immersion Day

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The screenshot shows the AWS Cloud Home interface. A red arrow points to the top navigation bar, specifically the tab labeled "Console Home | Console Home".

The main content area displays the "Applications" section. It includes:

- A header with "Applications (0)" and a "Create application" button.
- A search bar set to "us-east-1 (Current Region)" with a "Find applications" input field.
- A table with columns: Name, Description, Region, and Originating account.
- A message: "No applications" followed by "Get started by creating an application." and a "Create application" button.
- Links at the bottom: "View all services" and "Go to myApplications".

On the left sidebar, a "Service menu" is open, containing:

- A message: "You can access all AWS services here. There are sections for recently visited and you can save your favorite services too."
- A "Next" button.

The top navigation bar also features tabs for "Amazon SageMaker", "Amazon Bedrock", and "AWS DeepRacer".

← → C https://us-west-2.console.aws.amazon.com/console/home?region=us-west-2 ⌂ ⌃ ⌄ ⌅ ⌆

aws Services Q sagemaker canvas X

EC2 VPC

Console

Recent

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VPC

Amazon SageMaker

Amazon SageMaker Canvas

SageMaker Studio

Notebooks

Autopilot

Services

Amazon SageMaker

Build, Train, and Deploy Machine Learning Models

Application Composer

Visually design and build modern applications quickly

Resources / for a focused search

Search results for 'sagemaker canvas'

Features See all 5 results ▶

SageMaker Canvas Amazon SageMaker feature

SageMaker Studio Amazon SageMaker feature

Notebooks IoT Analytics feature

Autopilot Amazon SageMaker feature

Amazon SageMaker Build, Train, and Deploy Machine Learning Models

Application Composer Visually design and build modern applications quickly

Create application :

+ Add widgets

fault layout

Originating account

application cost, security findings, and e.

posts per month

USD)

Resources / for a focused search

← → C https://us-west-2.console.aws.amazon.com/sagemaker/home?region=us-west-2#/landing ☆

aws Services Search [Option+S] Oregon WSParticipantRole/Participant @ 3281-4040-8640 ▾

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Amazon SageMaker X

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.

Getting started

Studio

Studio Lab

Canvas 

RStudio

TensorBoard

Profiler

▼ Admin configurations

Domains

Role manager

Images

Lifecycle configurations

SageMaker dashboard

Search

▼ JumpStart

Foundation models

Computer vision models

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**

### How it works

#### What is Amazon SageMaker?

Amazon SageMaker provides machine learning (ML) capabilities for data scientists and developers to prepare, build, train, and deploy high-quality ML

### Documentation

Getting started 

Tutorials

Documentation 

Developer Resources 

AWS Developer Forum 

SageMaker Canvas | Amazon Sa X

https://us-west-2.console.aws.amazon.com/sagemaker/home?region=us-west-2#/canvas-landing

Services Search [Option+S] Oregon WSParticipantRole/Participant @ 3281-4040-8640

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Amazon SageMaker

Getting started Studio Studio Lab Canvas RStudio TensorBoard Profiler Admin configurations Domains Role manager Images Lifecycle configurations SageMaker dashboard Search JumpStart Foundation models

Amazon SageMaker

# SageMaker Canvas

Generate accurate machine learning predictions — no code required

Get Started

Select user profile

1-business-analyst

Open Canvas

Get hands-on experience with SageMaker Canvas

Discover SageMaker Canvas through a free demo experience, where you can learn how a SageMaker Canvas model can help notify your customers of package delays. Continue your learning path with free (no AWS Account required) guided lab, and a full course.

Free Demo Demo Hands-on Lab Lab Free Course Course

SageMaker Canvas | Amazon SageMaker

vghks-canvas-20240319

SageMaker Canvas

https://d-80q9jk2wsi7v.studio.us-west-2.sagemaker.aws/canvas/default/home

Home

Data Wrangler

My Models

ML Ops

Ready-to-use

Shared Models

Gen AI

Help

## Get started

Get started with quick actions to build and use ML and generative AI models – no code required.

Clean my data

Build a custom model

Compare GenAI models & query docs

Personal information detection  
Object detection  
Expense analysis  
Sentiment analysis

Learn to build machine learning models for different real world use cases. [Explore Workshops](#)

## Recent work

### Data flows

Name Last updated ↓

Create a data flow

Data flows are a way to visually connect and transform datasets.

## Canvas news

Featured blog

Detect anomalies in manufacturing data using Amazon SageMaker Canvas

Feb 15

Announcing support for Llama 2 and Mistral models and streaming responses in Amazon SageMaker Canvas

Blog Feb 5, 2024

# Lab Exercises

- Computer Vision (CV)
- Large Language Model (LLM)

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Amazon SageMaker  
Canvas Immersion Day

## What is Amazon SageMaker Canvas?

## Prerequisites

AWS Workshop Portal

## Self-Paced Lab

## Use case labs

## Technology Labs

▼ Ready-to-use Models

#### ▼ No-Code Computer Vision

## Using pre-trained Computer Vision models

- 5. Analyze the ML model
- 6. Make the Predictions

#### ► No-Code Natural Language Processing (Text Analysis)

## No-Code Intelligent Document Processing

#### ▶ Import data into SageMaker

*C*.....*C*.....

[Amazon SageMaker Canvas Immersion Day](#) > [Technology Labs](#) > [Ready-to-use Models](#) > [No-Code Computer Vision](#) >

# Create your custom Computer Vision model

**A** Make sure you have performed the steps described in the **Prerequisites** section before beginning this lab.

## Agenda

1. Overview
  2. The dataset
  3. Import the dataset in Canvas
  4. Building the ML model
  5. Analyze the ML model
  6. Make the Prediction

## Overview

In this lab, we will play the role of a business analyst working in the operations department of a manufacturing company that produces magnetic tiles. Our objective is to develop an image classification model capable of identifying defects in magnetic tiles based on their images. To achieve this, we have been given a dataset containing 200 labeled images of the final magnetic tiles produced on the assembly line. These images have been categorized according to the type of defect present, such as blowholes, cracks, and breaks. Our task is to leverage this dataset to build an accurate and efficient image classification model.



Home

## Data Wrangler

## Datasets

## Data flows

A small icon representing a database or storage, consisting of a cylinder with two curved lines extending from its base.

## Data Wrangler



## Import data



## Prepare data



## Scale data operations



## Build models

You have not created any data flows yet.

Create a new data flow to prepare data using generative AI or 300+ built-in analyses and transforms.

## + Create a data flow



Gen AI

## Resources

## Get started

- What is Amazon SageMaker Data Wrangler 
  - Get started with Data Wrangler in Canvas 

## Documentation

- Pricing in Canvas ↗
  - AWS technical guide ↗

## What's new

- Accelerate data preparation for ML with comprehensive data preparation capabilities and a natural language interface 



[Log out](#)

Screenshot of the SageMaker Canvas Data Wrangler interface.

The page title is "Data Wrangler".

The main navigation tabs are "Datasets" (selected) and "Data flows".

Filter options include "All", "Tabular", "Document", and "Image".

A search bar for "Dataset" and a "Join data" button are available.

A red arrow points to the "Datasets" tab.

The table displays the following data:

Name	Dataset type	Source	Files	Cells (Columns x Rows)	Last modified
canvas-sample-retail-electronics-forecasting.csv	V1 Tabular	S3	1	243,000 (6 x 40,500)	03/
canvas-sample-housing.csv	V1 Tabular	S3	1	10,000 (10 x 1,000)	03/
canvas-sample-loans-part-2.csv	V1 Tabular	S3	1	5,000 (5 x 1,000)	03/
canvas-sample-shipping-logs.csv	V1 Tabular	S3	1	12,000 (12 x 1,000)	03/
canvas-sample-product-descriptions.csv	V1 Tabular	S3	1	600 (5 x 120)	03/
canvas-sample-maintenance.csv	V1 Tabular	S3	1	9,000 (9 x 1,000)	03/
canvas-sample-databricks-dolly-15k.csv	V1 Tabular	S3	1	4,000 (2 x 2,000)	03/
canvas-sample-diabetic-readmission.csv	V1 Tabular	S3	1	16,000 (16 x 1,000)	03/
canvas-sample-loans-part-1.csv	V1 Tabular	S3	1	19,000 (19 x 1,000)	03/

Screenshot of the SageMaker Canvas Data Wrangler interface showing a list of datasets.

The left sidebar includes icons for Home, Data Wrangler (selected), My Models, ML Ops, Ready-to-use, Shared Models, Gen AI, and Help.

The top navigation bar shows tabs for vghks-canvas-20240319, Amazon Kendra | us-west-2, and SageMaker Canvas, along with a URL https://d-80q9jk2wsi7v.studio.us-west-2.sagemaker.aws/canvas/default/dataPreparation/datasets.

The main area displays a table of datasets:

Name	Dataset type	Source	Files	Cells (Columns x Rows)
canvas-sample-retail-electronics-forecasting.csv	V1 Tabular	S3	1	243,000 (6 x 40,500)
canvas-sample-housing.csv	V1 Tabular	S3	1	10,000 (10 x 1,000)
canvas-sample-loans-part-2.csv	V1 Tabular	S3	1	5,000 (5 x 1,000)
canvas-sample-shipping-logs.csv	V1 Tabular	S3	1	12,000 (12 x 1,000)
canvas-sample-product-descriptions.csv	V1 Tabular	S3	1	600 (5 x 120)
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canvas-sample-diabetic-readmission.csv	V1 Tabular	S3	1	16,000 (16 x 1,000)
canvas-sample-loans-part-1.csv	V1 Tabular	S3	1	19,000 (19 x 1,000)

A dropdown menu is open for "Dataset type", showing options: Document (PNG, JPG and PDF files), Image (PNG and JPEG files), and Tabular (CSV or Parquet files). A red arrow points to the "Image" option.



Home



Data Wrangler



My Models



ML Ops



Ready-to-use



Shared Models



Gen AI



Help



Log out

# Data Wrangler

Datasets

Data flows

Filter by data type:  All  Tabular  Document  Image Dataset Join data Create ▾

Name	Dataset type	Source	Files	Cells (Columns x Rows)	Last
<input type="checkbox"/> canvas-sample-retail-electronics-forecast				243,000 (6 x 40,500)	03/
<input type="checkbox"/> canvas-sample-housing.csv				10,000 (10 x 1,000)	03/
<input type="checkbox"/> canvas-sample-loans-part-2.csv				5,000 (5 x 1,000)	03/
<input type="checkbox"/> canvas-sample-shipping-logs.csv				12,000 (12 x 1,000)	03/
<input type="checkbox"/> canvas-sample-product-descriptions.csv				600 (5 x 120)	03/
<input type="checkbox"/> canvas-sample-maintenance.csv				9,000 (9 x 1,000)	03/
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<input type="checkbox"/> canvas-sample-diabetic-readmission.csv	V1	Tabular	S3	16,000 (16 x 1,000)	03/
<input type="checkbox"/> canvas-sample-loans-part-1.csv	V1	Tabular	S3	19,000 (19 x 1,000)	03/

## Create an image dataset



Dataset name

Magnetic-Tiles-Dataset

Use only letters, numbers, spaces, dashes, colons, and underscores up to 64 characters.

 Cancel Create



## Magnetic-Tiles-....: Create Image dataset

Data Source: Local upload ▾

### Upload files to import

Drag and drop files and folders here

or

Select files

Select folders

- A maximum of 200 images can be uploaded at a time.
- Supported formats: JPG and PNG.
- Image must be smaller than 30 MB.

Assign labels to images based on folder name

SageMaker Canvas

aws workshop studio

Event ends in 2 days 19 hours 20 minutes.

## The dataset

[Download the training dataset](#)  [Download the test dataset](#) 

Upon unzipping the training data, you will encounter folders that organize the images based on distinct defect types, including blowholes, breaks, and cracks. It's worth noting that the free folder contains images that are devoid of any defects. Moreover, to assess the efficacy of the model in the testing phase, it's crucial to download inference or test images.

Magnetic-Tiles-Dataset

Blowhole

Open AWS console (us-west-2) 

Get AWS CLI credentials

Language English ▾

## Magnetic-Tiles-....: Create Image dataset

Data Source:  Local upload ▾

### Upload files to import

Drag and drop files and folders here

or

 Select files

 Select folders



- A maximum of 200 images can be uploaded at a time.
- Supported formats: JPG and PNG.
- Image must be smaller than 30 MB.

Assign labels to images based on folder name

SageMaker Canvas

vghks-canvas-20240319

Amazon Kendra | us-west-2

Magnetic-Tiles-...: Create dataset

Data Source: Local upload

Upload files to import

New Folder

Cancel

Upload

Select files

Select folders

Name

Inference

magnetic-tiles-train

Search

Assign labels to images based on folder name

- A maximum of 200 images can be uploaded at a time.
- Supported formats: JPG and PNG.
- Image must be smaller than 30 MB.

Dataset

Size

Kind

Folder

Folder

Favorite Locations

- mba
- Applications
- Downloads
- On My Mac
- iCloud
- iCloud D...
- Documents
- Desktop
- Shared
- Locations
- Network

• A maximum of 200 images can be uploaded at a time.

• Supported formats: JPG and PNG.

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Assign labels to images based on folder name

https://d-8oq9jk2wsi7v.studio.us-west-2.sagemaker.aws/canvas/default/dataPreparation/datasets

## Magnetic-Tiles-...: Create Image dataset

Data Source: [Local upload](#)

### Upload files to import

Drag and drop files and folders here

or

[Select files](#)

[Select folders](#)

- A maximum of 200 images can be uploaded at a time.
- Supported formats: JPG and PNG.
- Image must be smaller than 30 MB.

Assign labels to images based on folder name

200 files ready to import

[Delete all](#)

[Crack \(40 of 40\)](#)



[Blowhole \(50 of 50\)](#)



[Free \(60 of 60\)](#)



[Break \(50 of 50\)](#)



.DS\_Store

Upload failed



## Magnetic-Tiles-...: Create Image dataset

Data Source:

Local upload

### Upload files to import

Drag and drop files and folders here

or

Select files

Select folders

- A maximum of 200 images can be uploaded at a time.
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200 files ready to import

Delete all

Crack (40 of 40)



Blowhole (50 of 50)



Free (60 of 60)



Break (50 of 50)



.DS\_Store

Upload failed



Data Source:  Local upload ▾

## Upload files to import

Drag and drop files and folders here

or

 Select files

 Select folders

- A maximum of 200 images can be uploaded at a time.
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Assign labels to images based on folder name

200 files ready to import

[Delete all](#)

 Crack (40 of 40) 

 Blowhole (50 of 50) 

 Free (60 of 60) 

 Break (50 of 50) 

[Cancel](#)

[Create dataset](#)



SageMaker Canvas

vghks-canvas-20240319

Amazon Kendra | us-west-2

Data Wrangler

Home

Datasets Data flows

Filter by data type: All Tabular Document Image

Dataset

Join data

Create

Name Dataset type Source Files Cells (Columns x Rows) Last modified

Name	Dataset type	Source	Files	Cells (Columns x Rows)	Last modified
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<input type="checkbox"/> canvas-sample-loans-part-2.csv	V1 Tabular	S3	1	5,000 (5 x 1,000)	03/
<input type="checkbox"/> canvas-sample-shipping-logs.csv	V1 Tabular	S3	1	12,000 (12 x 1,000)	03/
<input type="checkbox"/> canvas-sample-product-descriptions.csv	V1 Tabular	S3	1	600 (5 x 120)	03/
<input type="checkbox"/> canvas-sample-maintenance.csv	V1 Tabular	S3	1	9,000 (9 x 1,000)	03/
<input type="checkbox"/> canvas-sample-databricks-dolly-15k.csv	V1 Tabular	S3	1	4,000 (2 x 2,000)	03/
<input type="checkbox"/> canvas-sample-diabetic-readmission.csv	V1 Tabular	S3	1	16,000 (16 x 1,000)	03/

My Models

ML Ops

Ready-to-use

Shared Models

Gen AI

Help



 New! Amazon SageMaker Canvas supports comprehensive data preparation including a conversational interface for data transformation, Gen AI capabilities to access, evaluate, and fine-tune LLMs, configuration of parameters to build models, and the ability to directly deploy models to real-time endpoints. [Learn more](#)

## My models

 Search models

+ New model

## Data Wrangler

 Grid  List



## My Models



ML Ops



Ready-to-use



## Shared Models



Gen AI



## Select database

## Build mode

## Analyze

## Predict

## Deploy

+ Create new mode

## Resources

## Tutorials

- Prepare training data for machine learning with

Documentation

- Pricing in Canvas

## What's new

- Automate batch predictions in Amazon



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Help



Log out

New! Amazon SageMaker Canvas supports comprehensive data preparation including a conversational interface for data transformation, Gen AI capabilities to access, evaluate, and fine-tune LLMs, configuration of parameters to build models, and the ability to directly deploy models to real-time endpoints. [Learn more](#)

## Create new model



### Model name

Model name

Magnetic-Tiles-Defect-Model

Use only letters, numbers, and underscores up to 12 characters.



### Problem type

Select the problem type you want the model to solve.



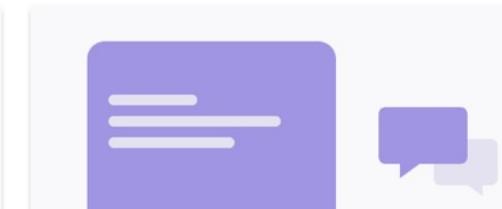
#### Predictive analysis

Build models using tabular datasets to predict single or multiple categories as well as regression and time-series forecast problems.



#### Image analysis

Build models using image datasets to predict single or multiple categories for image classification problems.



#### Text analysis

Build models using tabular datasets to predict single or multiple categories for text classification problems.



#### Fine-tune foundation model

Customize a foundation model on your data to improve its performance for a specific task or domain.

Cancel

Create

- Prepare training data for machine learning with minimal code [🔗](#)
- Automatically create machine learning models [🔗](#)

- Pricing in Canvas [🔗](#)
- User guide [🔗](#)

- Automate batch predictions in Amazon SageMaker Canvas using updated datasets [🔗](#)
- Operationalize ML models built in Amazon



Home

[Select](#)[Build](#)[Analyze](#)[Predict](#)[Deploy](#)

Data Wrangler



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Log out

## Select dataset

[+ Create dataset](#)

You can select a dataset that has already been imported or you can create a new dataset.

 Search datasets in Canvas

All

Name

Source

Images

Created

Status

 Magnetic-Tiles-Dataset

V1

Local

200

03/18/2024 9:25 PM

Ready

[Select dataset](#)



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Select

Build

Analyze

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Deploy



Data Wrangler



My Models



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Help



Log out

## Label Distribution



## Model type

Single-label image prediction

Your model will predict the one correct label that you want assigned to an image.

[Quick build](#)**Magnetic-Tiles-Dataset**[Edit dataset](#)**Total images** 200

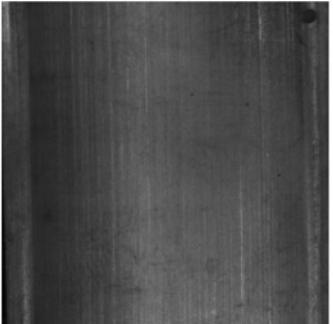
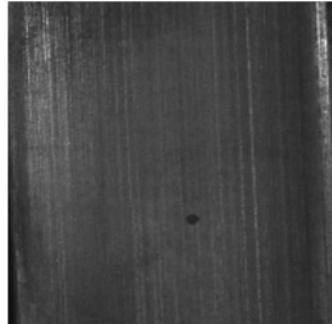
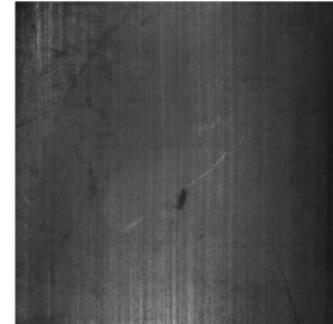
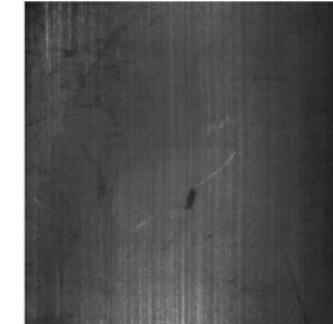
Labeled 200

Unlabeled 0

Images per page 30 ▾ 1-30 of 200

 Search for label

Blowhole 50



Break 50

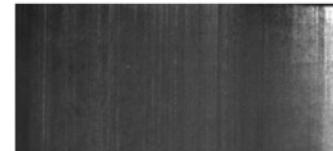
Blowhole

Blowhole

Blowhole

Blowhole

Crack 40



Free 60



Total labels: 4

Total images: 200

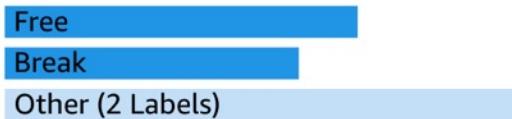
Select

Build

Analyze

Predict

Deploy

**Label Distribution****Model type**

Single-label image prediction

💡 Your model will predict the one correct label that you want assigned to an image.

magnetic-tiles-train

[Edit dataset](#)

Total images 200

Labeled 200

Unlabeled 0

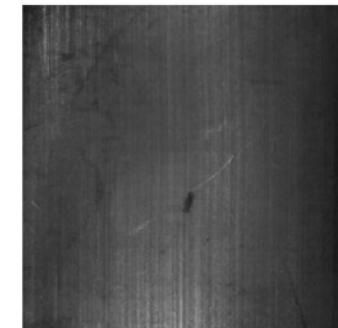
 Search for label

Blowhole 50

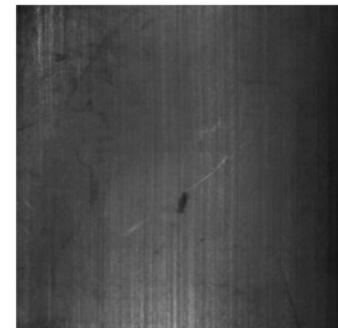
Break 50

Crack 40

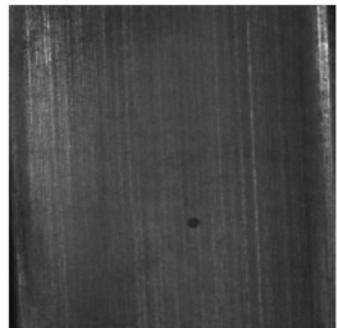
Free 60



Blowhole



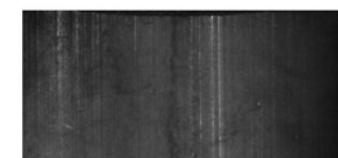
Blowhole



Blowhole



Blowhole



Quick build

**Quick build**

Choose speed over accuracy. Building usually takes between 15-30 minutes. You can't share quick build models.

**Standard build**

Choose accuracy over speed. Building usually takes between 2-5 hours



Select

Build

Analyze

Predict

Deploy

**Label Distribution****Model type**

Single-label image prediction

Your model will predict the one correct label that you want assigned to an image.

Standard build



magnetic-tiles-train

[Edit dataset](#)

☰

Total images 200

Labeled 200

Unlabeled 0

 Search for label

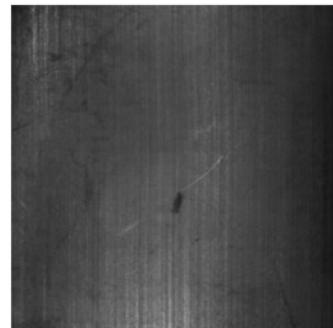
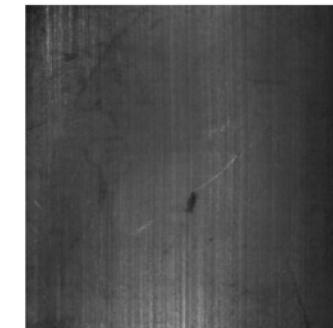
Blowhole 50

Break 50

Crack 40

Free 60

Images per page 30 ▾ 1-30 of 200

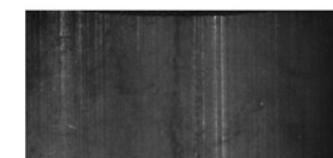


Blowhole

Blowhole

Blowhole

Blowhole



SageMaker Canvas | Amazon | Amazon SageMaker Canvas | SageMaker Canvas | T.LY: World's Shortest URL S | +

d-culcm7zcqhoq.studio.us-east-1.sagemaker.aws/canvas/default/models/Magnetic-Tiles-Defect-Model

New Chrome available :

My models > Magnetic-Tiles-Defect-Model > Version 1

Add version

Select Build Analyze Predict Deploy

Model overview

Your model is being created. Standard build usually takes 2 to 5 hours.

Expected build time: 2 to 5 hours

Build type: Standard build

Detailed progress: Pre-training

A small illustration of a person wearing headphones and working on a laptop.

New! Amazon SageMaker Canvas supports comprehensive data preparation including a conversational interface for data transformation, Gen AI capabilities to access, evaluate, and fine-tune LLMs, configuration of parameters to build models, and the ability to directly deploy models to real-time endpoints. [Learn more](#)



## My models

Search models

+ New model

Grid   List

Ready

### Magnetic-Tiles-Defect-Model



Versions

1

Target

--

Problem type

Single-label image prediction

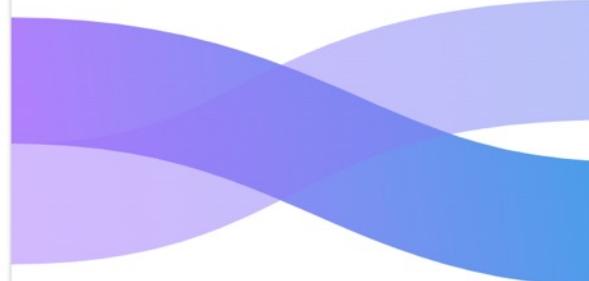
Updated

2024-1-16 2:44 PM

[View](#)

Ready

### Churn



Versions

1

Target

Churn

Problem type

2 category prediction

Updated

2024-1-16 1:40 PM

[View](#)



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d-culcm7zcqhoq.studio.us-east-1.sagemaker.aws/canvas/default/models/group/Magnetic-Tiles-Defect-Model

My models > Magnetic-Tiles-Defect-Model

Add version Share

Versions

Select a version to view details

Show advanced metrics

Version	Status	Created	Dataset	Model score	Shared	Model Registry
v1	Ready	01/16/2024 2:18 PM	magnetic-...	90%	--	Not Registered ⓘ

A red arrow points to the 'v1' button in the table header.

Select

Build

Analyze

Predict

Deploy

## Model status

90%

[Predict](#)[Deploy](#)

The model predicts the correct labels 90% of the time.

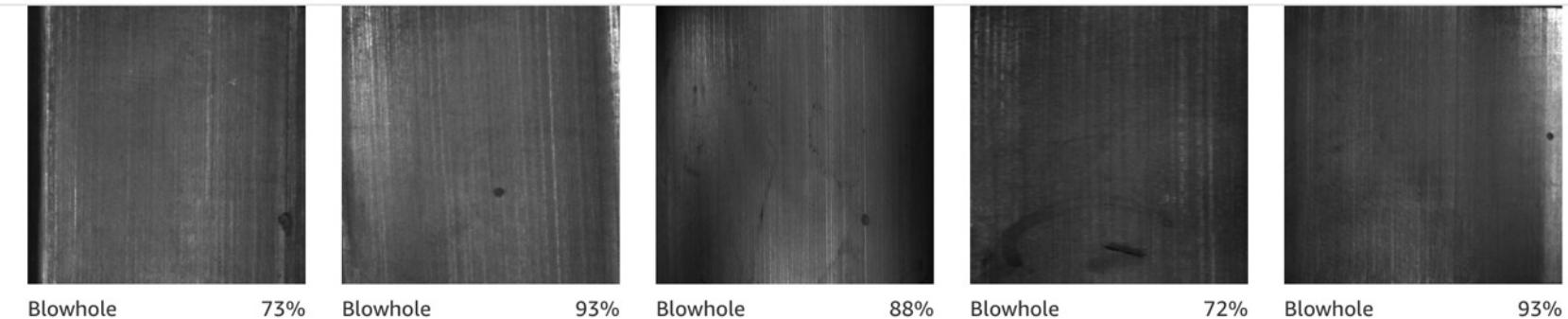
[Overview](#)[Scoring](#)

☰

## Per Label performance ⓘ ↓

 Search for label

## Blowhole performance ⓘ

 Heatmap ⓘ[Correctly predicted](#)[Incorrectly predicted](#)

Select

Build

Analyze

Predict

Deploy

## Model status

90%

Predict

Deploy

The model predicts the correct labels 90% of the time.

Overview

Scoring

⋮

## Per Label performance ⓘ ↓

Search for label

1 Blowhole

100%

2 Crack

100%

3 Break

90%

4 Free

75%

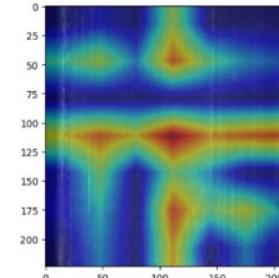
## Blowhole performance ⓘ

Correctly predicted

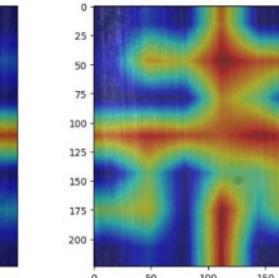
Incorrectly predicted

Heatmap ⓘ

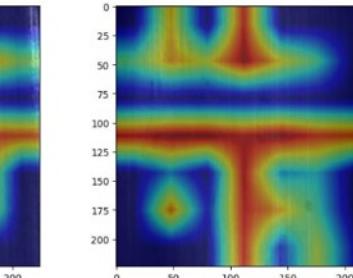
Blowhole



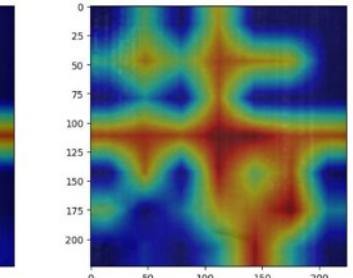
Blowhole



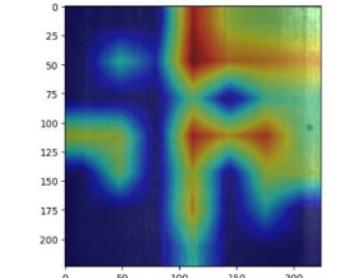
Blowhole



Blowhole



Blowhole



magnetic-tiles-train



Select

Build

Analyze

Predict

Deploy

## Model status

90%

Predict

Deploy

The model predicts the correct labels 90% of the time.

Overview

Scoring

↗

All predictions

Predicted

Actual

Total  
40

Free

Free

Blowhole

Blowhole

Break

Break

Crack

Crack



Predicted Label vs. Actual Label

dataset, the model **predicted 100%** of them to be **Blowhole**.

## Individual labels

Class	Precision	Recall
Break	100%	90%
Free	90%	75%
Crack	88.889%	100%
Blowhole	83.333%	100%

Select

Build

Analyze

Predict

Deploy

## Model status

90%

The model predicts the correct labels 90% of the time.

[Predict](#)[Deploy](#)

Overview

Scoring

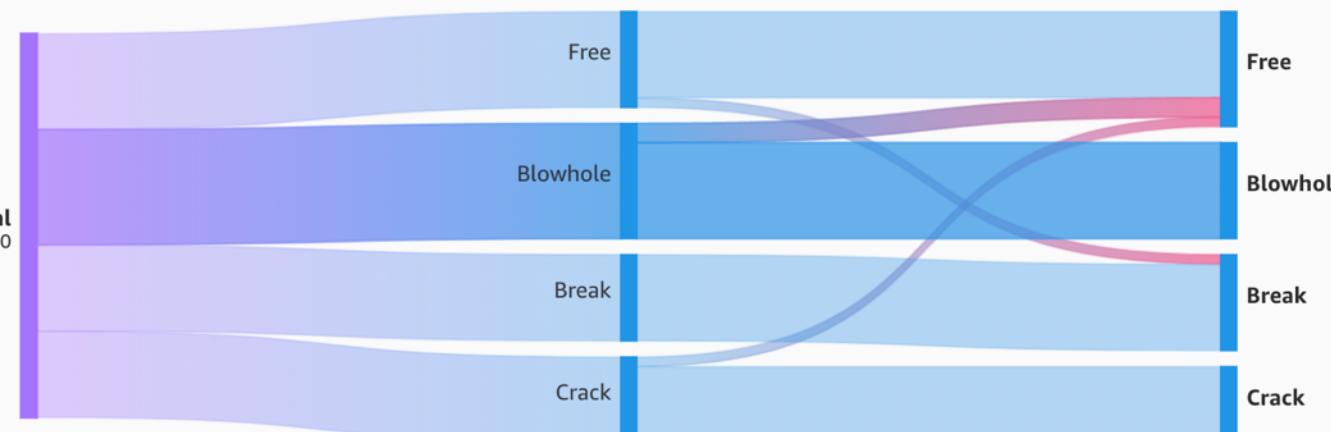
⋮

Predicted Label vs. Actual Label

All predictions

Predicted

Actual

Total  
40

dataset, the model **predicted 100%** of them to be **Blowhole**.

## Individual labels

Class	Precision	Recall
Break	100%	90%
Free	90%	75%
Crack	88.889%	100%
Blowhole	83.333%	100%

Select

Build

Analyze

Predict

Deploy

## Run predictions

[Single prediction](#)[Batch prediction](#)

Generate predictions for a single image.

[Import image](#)

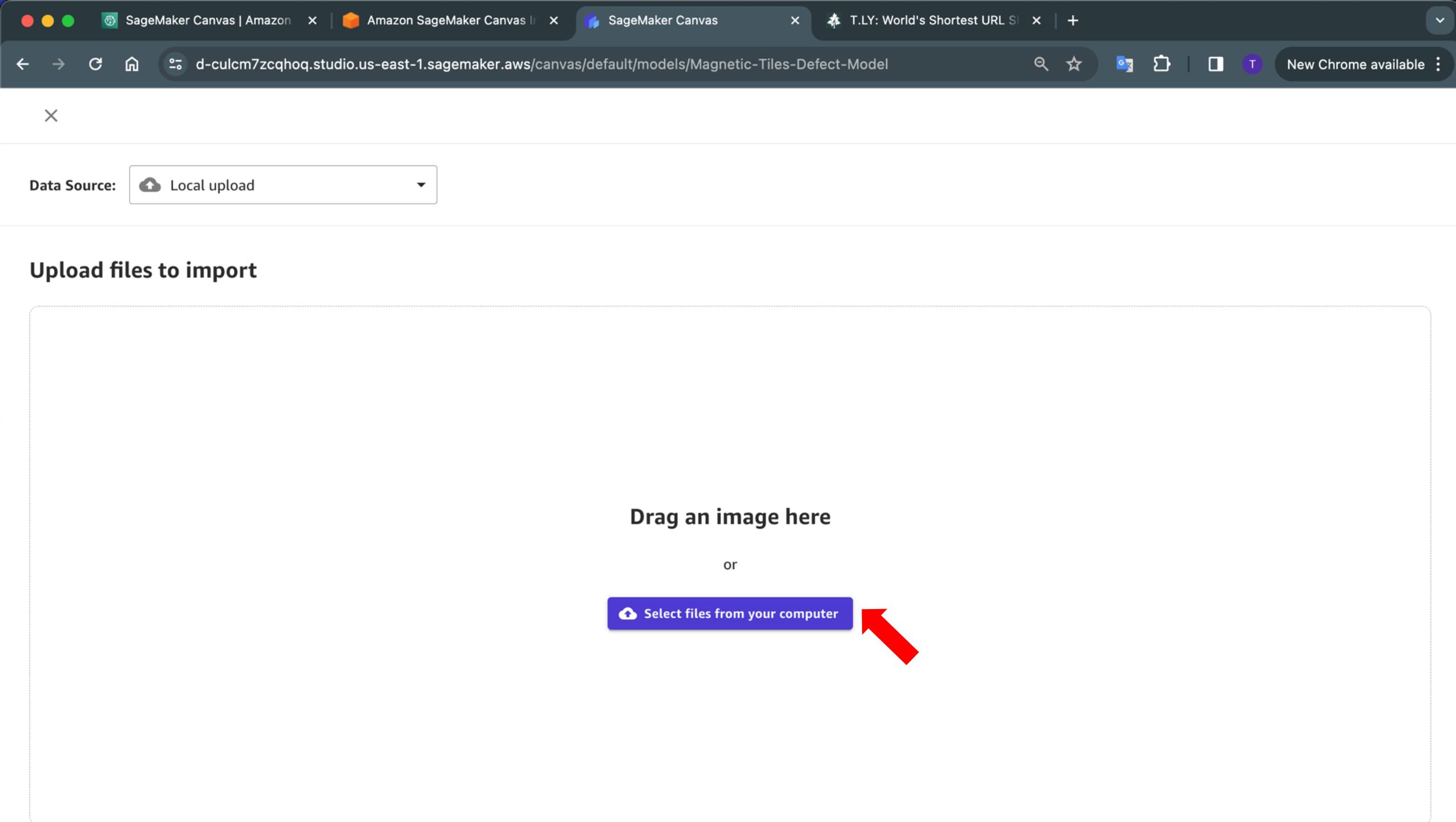
## Prediction results

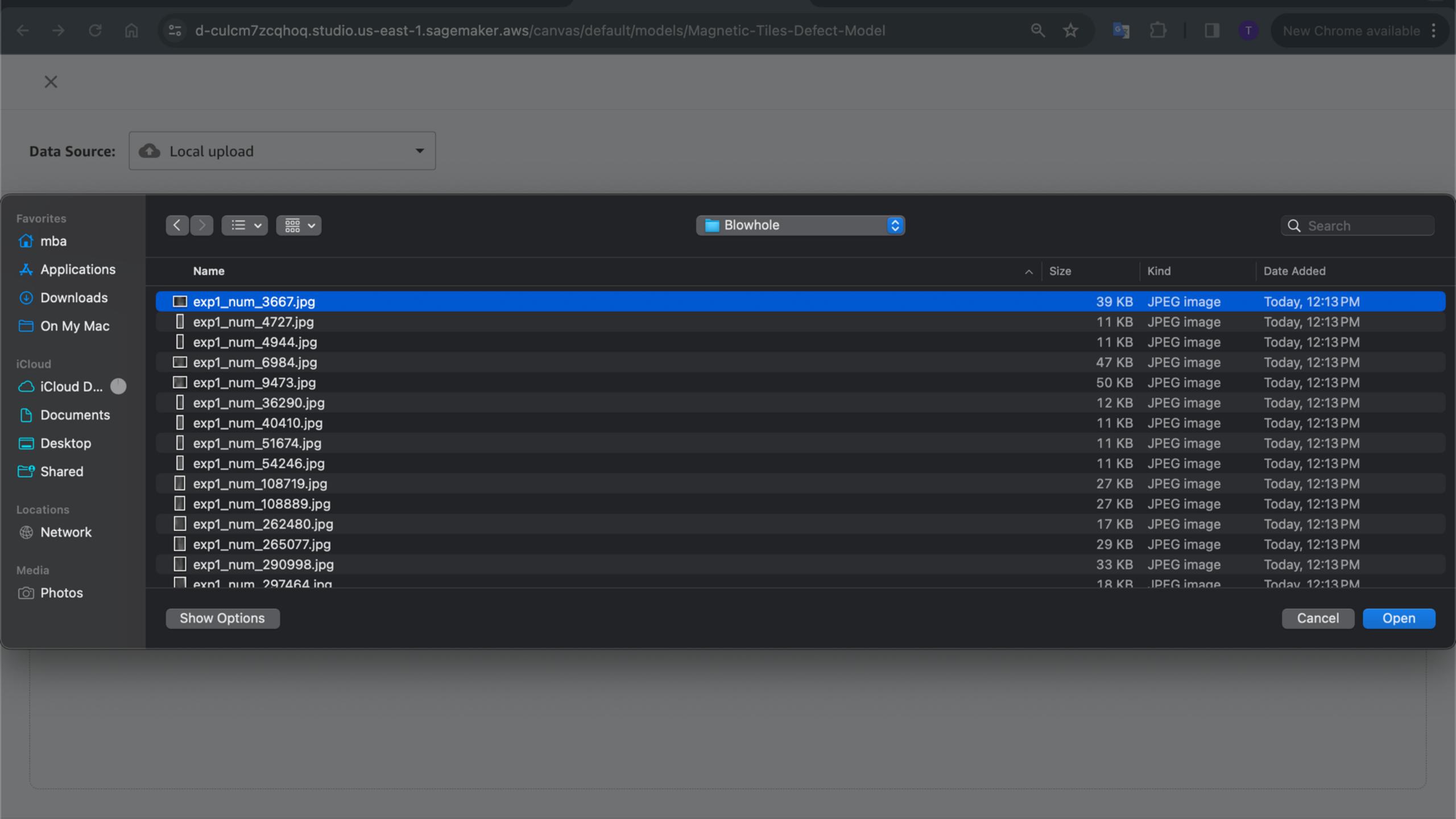
Start by importing an image

[+ Import](#)

Prediction results will be displayed here after clicking Generate predictions.







X

Data Source:  Local upload ▾

## Upload files to import

Drag an image here

or

 Select files from your computer

1 file ready to import

Delete all

exp1\_num\_3667.jpg



Cancel

Create dataset



SageMaker Canvas | Amazon | Amazon SageMaker Canvas | SageMaker Canvas | T.LY: World's Shortest URL S | +

d-culcm7zcqhoq.studio.us-east-1.sagemaker.aws/canvas/default/models/Magnetic-Tiles-Defect-Model

My models > Magnetic-Tiles-Defect-Model > Version 1

Add version

Select Build Analyze Predict Deploy

Run predictions

Single prediction Batch prediction

Generate predictions for a single image.

Import image



Prediction results

Confidence ⓘ

Defect Type	Confidence (%)
Blowhole	96%
Break	3%
Free	1%
Crack	1%

Help

Feedback

# Lab Exercises

- Computer Vision (CV)
- Large Language Model (LLM)

vghks-canvas-20240319

Amazon Kendra | us-west-2

SageMaker Canvas

https://catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/2-advanced-topics/8-genai/1-canvas-chat

michael\_tw\_lin

aws workshop studio

Generative AI Labs

Introduction to Generative AI with SageMaker Canvas

Use Case: Contact Center Intelligence (CCI)

Information Extraction - Query your own documents

Import data into SageMaker Canvas from any source

Accelerate Data Preparation for Machine Learning

ML-powered Business Intelligence - Amazon QuickSight

Operationalize your models - Automations, Model

AWS account access

Open AWS console (us-west-2)

Get AWS CLI credentials

Content preferences

Language English

Event ends in 2 days 19 hours 40 minutes.

Event dashboard > Technology Labs > Generative AI Labs > Introduction to Generative AI with SageMaker Canvas

# Introduction to Generative AI with SageMaker Canvas



SageMaker Canvas chatbot experience allows users to leverage foundation models from Amazon Bedrock and Amazon SageMaker JumpStart in a chatbot UX, without the need to know about Generative AI, APIs, endpoints, tokens, parameters, chat interfaces, etc. The chat interface is pre-built in the SageMaker Canvas app users are already familiar with, in the ready-to-use models tab.

Once launched SageMaker Canvas chatbot experience, users can start interacting with foundation models with the chat interface, asking questions and providing prompts. Users can choose which model they want to interact with, from either Amazon Bedrock (Amazon and partners' models) or Amazon SageMaker JumpStart (open-source models). Users can also compare multiple models at once, to select whichever fits better the style of answers they're looking for.

## Access Amazon SageMaker Canvas

In order to access the Amazon SageMaker Canvas chatbot experience, start by accessing Amazon SageMaker Canvas. You can do so by clicking on this [link to the AWS Management Console](#) and click on **Open Canvas** after having selected the right domain and user profile.

SageMaker Canvas | Amazon Sa X SageMaker Canvas X +

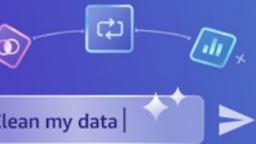
vghks-canvas-20240319 https://d-80q9jk2wsi7v.studio.us-west-2.sagemaker.aws/canvas/default/home

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## Home

### Get started

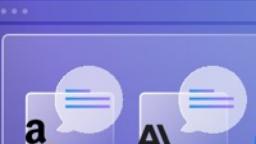
Get started with quick actions to build and use ML and generative AI models – no code required.



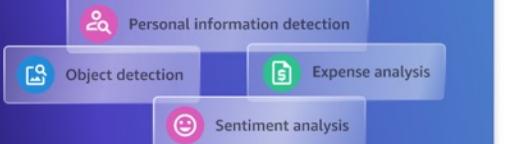
Prepare and analyze data



Build a custom model



Compare GenAI models & query docs



Explore ready-to-use-models

Learn to build machine learning models for different real world use cases. [Explore Workshops](#)

### Recent work

Data flows

+ Create a data flow

Name	Last updated
------	--------------

Data flows are a way to visually connect and transform datasets.

### Canvas news

Featured blog

Detect anomalies in manufacturing data using Amazon SageMaker Canvas

Feb 15

Announcing support for Llama 2 and Mistral models and streaming responses in Amazon SageMaker Canvas

Blog Feb 5, 2024

A red arrow points to the Gen AI icon in the sidebar.

SageMaker Canvas | Amazon Sa X SageMaker Canvas X +

vghks-canvas-20240319 https://d-8oq9jk2wsi7v.studio.us-west-2.sagemaker.aws/canvas/default/readyToUseModels/canvasChat

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## Generate, extract and summarize content

You must have the necessary permissions for interacting with foundation models and using the document query feature in Canvas. Go to the [SageMaker Console](#) to enable permissions for this account if this hasn't been done already. If you don't have access to the [SageMaker Console](#), contact your administrator. [Learn more](#)

+ New chat Query documents Index CanvasImmersionDayIndex

Get started by asking a question!

To begin start up the model: **Llama-2-7b-Chat**

Llama 2 7B Chat is a 7 billion parameter fine-tuned model that is optimized for dialogue use cases. It leverages publicly available instruction datasets and over 1 million human annotations. Llama 2 pre-trained models are trained on 2 trillion tokens of publicly available online data sources. According to the model developer, Meta, "Llama 2 outperforms other open source language models on many external benchmarks, including reasoning, coding, proficiency, and knowledge tests. It is on par with some popular closed-source models like ChatGPT and PaLM based on our human evaluations for helpfulness and safety."

Use of this model is governed by the [Meta](#) license.

**Use cases**

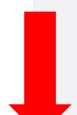
Assistant-like chat

Model Developer: [Meta](#)

**Pricing**

Per hour instance charges apply. Learn more [here](#).

Additional details





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Log out

## Generate, extract and summarize content

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[+ New chat](#)[Query documents](#) 

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Llama 2 outperforms other open source language models on many external benchmarks, including reasoning, coding, proficiency, and knowledge tests. It is on par with some popular closed-source models like ChatGPT and PaLM based on our human evaluations for helpfulness and safety."

Use of this model is governed by the [Meta](#) license.

### Use cases

Assistant-like chat

Model Developer: [Meta](#)

### Pricing

Per hour instance charges apply. Learn more [here](#).

### Additional details

- After startup, this model is deployed to an Amazon SageMaker instance in your private and secure AWS environment.
- Your data remains confidential and is not shared with the model provider.
- The model automatically shuts down after 2 hours of inactivity.

Click [here](#) to learn more about LLMs.

[Start up Llama-2-7b-Chat](#)[Select another model](#)



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## Generate, extract and summarize content

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### Review the End User License Agreement (EULA) and Acceptable Use Policy (AUP) below



Llama 2 Community License Agreement

Llama 2 Version Release Date: July 18, 2023

"Agreement" means the terms and conditions for use, reproduction, distribution and modification of the Llama Materials set forth herein.

"Documentation" means the specifications, manuals and documentation accompanying Llama 2 distributed by Meta at [ai.meta.com/resources/models-and-libraries/llama-downloads/](https://ai.meta.com/resources/models-and-libraries/llama-downloads/).

"Licensee" or "you" means you, or your employer or any other person or entity (if you are entering into this Agreement on such person or entity's behalf) of the age

Cancel

I have read and accept EULA and AUP

[Click here](#) to learn more about EULAs.



Start up Llama-2-7b-Chat

Select another model

SageMaker Canvas | Amazon Sa X SageMaker Canvas X +

vghks-canvas-20240319 https://d-8oq9jk2wsi7v.studio.us-west-2.sagemaker.aws/canvas/default/readyToUseModels/canvasChat

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## Generate, extract and summarize content

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+ New chat Query documents ⓘ Index CanvasImmersionDayIndex

**Llama-2-7b-Chat is starting up...**

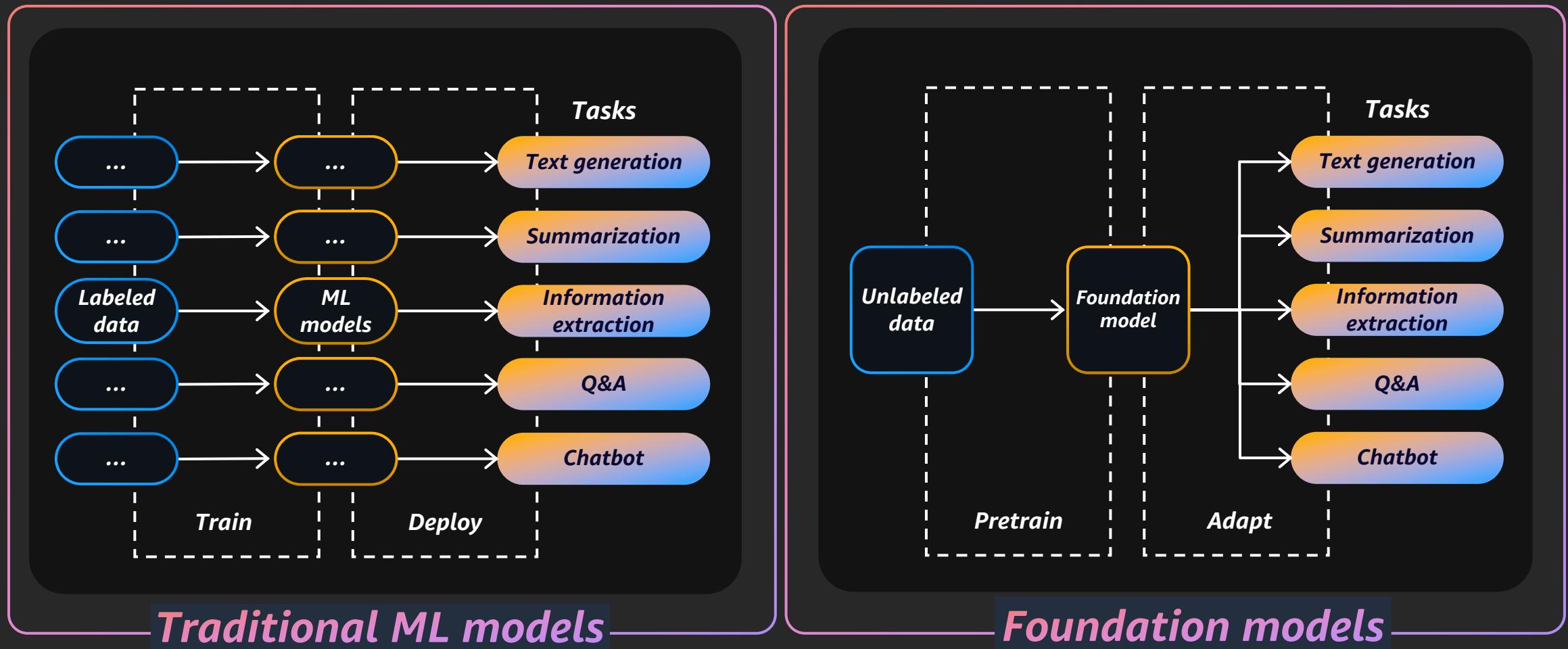
We are starting this model in your AWS environment. Your data remains confidential and is not shared with the model provider.

Expected start up time  
10 minutes

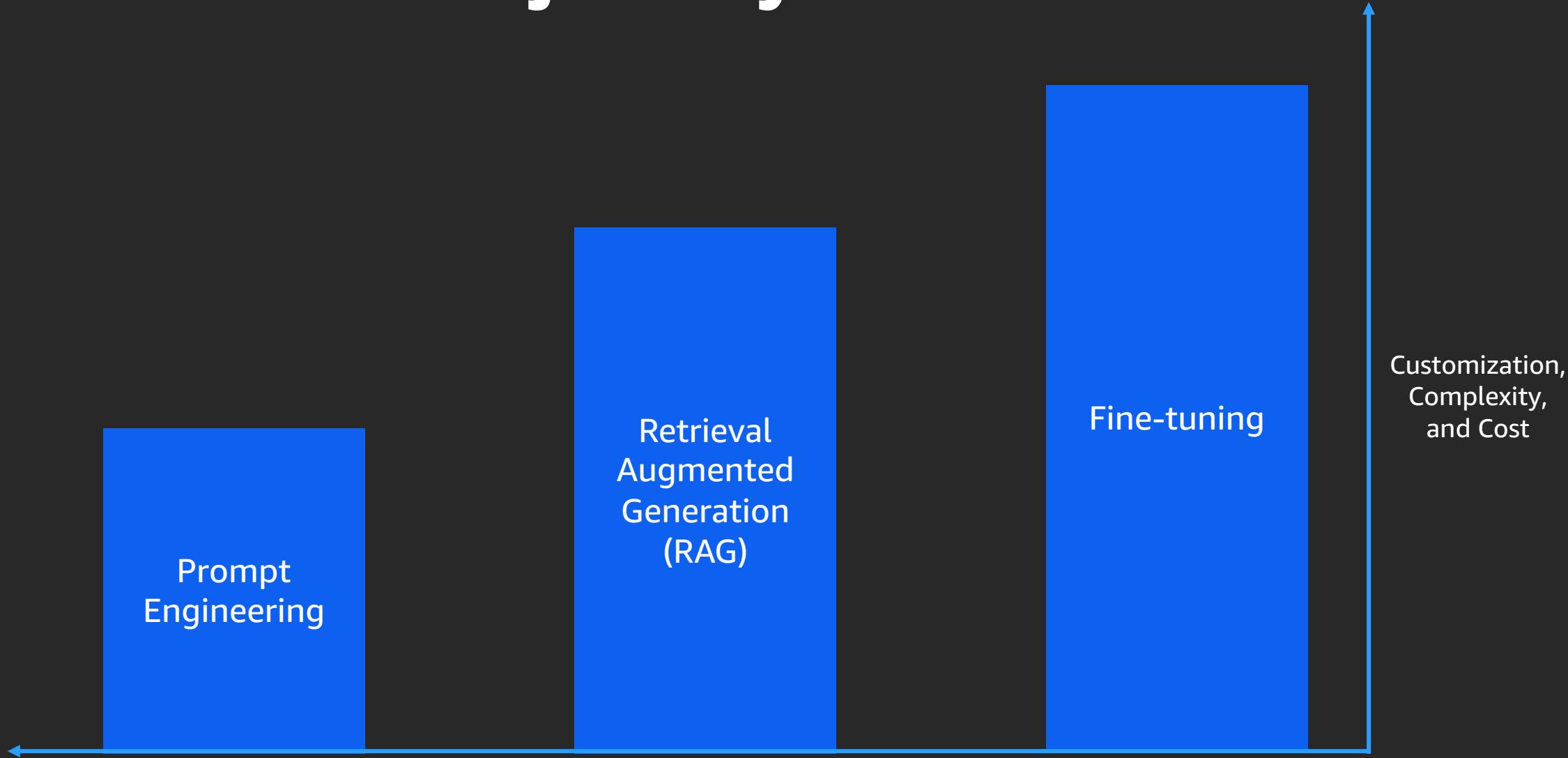
Model shut down  
The model will automatically shut down after 2 hours of inactivity to avoid unnecessary costs.



# Generative AI is powered by foundation models (FMs)



# Your customization journey





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# Generate, extract and summarize content

+ New chat



Query documents ⓘ

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Llama-2-7b-Chat ▾



+ Compare

Ask me anything...



SageMaker Canvas

https://d-8oq9jk2wsi7v.studio.us-west-2.sagemaker.aws/canvas/default/readyToUseModels/canvasChat

Generate, extract and summarize content

+ New chat

Query documents ⓘ

Llama-2-7b-Chat

+ Compare

To get started, try these example prompts:

- Create a summary of KPIs (Key Performance Indicators) for monitoring and evaluating the success of a marketing campaign.
- Write a report outlining the potential benefits and ROI of implementing a customer relationship management (CRM) system.
- Compose an email with a summary of the following meeting notes: "Insert your meeting notes"

Ask me anything

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# Generate, extract and summarize content

[+ New chat](#)[Query documents ⓘ](#)

Llama-2-7b-Chat



Create a summary of KPIs (Key Performance Indicators) for monitoring and evaluating the success of a marketing campaign.



Of course! Here are some key performance indicators (KPIs) that can be used to monitor and evaluate the success of a marketing campaign:

1. Reach and Impressions: The number of people exposed to the campaign through various channels, such as social media, email, or advertising.
2. Engagement: The number of likes, shares, comments, and other interactions on social media platforms.
3. Conversions: The number of people who take a desired action as a result of the campaign, such as making a purchase or filling out a form.
4. Customer Acquisition Costs (CAC): The cost of acquiring a new customer through the campaign, including the cost of advertising, promotions, and other marketing expenses.
5. Customer Retention Rate: The percentage of customers who continue to do business with the company after the campaign.
6. Return on Ad Spend (ROAS): The revenue generated by the campaign divided by the cost of the advertising, expressed as a percentage.
7. Social Media Metrics: Engagement rates, follower growth, and social media reach can be used to evaluate the success of a social media campaign.
8. Lead Quality: The quality of the leads generated by the campaign, including the likelihood of conversion and the value of the lead.
9. Sales: The direct revenue generated by the campaign, including sales from products or services promoted during the campaign.
10. Brand Awareness: The increase in brand recognition and reputation as a result of the campaign.

Ask me anything...



vhks-canvas-20240319 X DCN00669(1)\_QTRCO\_IOM\_LD X DCN00669(1)\_QTRCO\_IOM\_LDA\_t X SageMaker Canvas X +

https://catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/2-advanced-topics/8-genai/3-canvas-ent

aws workshop studio michael\_tw\_lin

Generative AI Labs

- Introduction to Generative AI with SageMaker Canvas
- Use Case: Contact Center Intelligence (CCI)
- Information Extraction - Query your own documents**
- Import data into SageMaker Canvas from any source
- Accelerate Data Preparation for Machine Learning
- ML-powered Business Intelligence - Amazon QuickSight
- Operationalize your models -

AWS account access

- Open AWS console (us-west-2) □
- Get AWS CLI credentials

Content preferences

- Language English ▾

Event ends in 2 days 20 hours.

Event dashboard > Technology Labs > Generative AI Labs > Information Extraction - Query your own documents

## Information Extraction - Query your own documents

**⚠️** If you haven't done so, please follow the previous lab to cover the main capabilities of the SageMaker Canvas chatbot experience. Come back to this lab once you're ready.

## Agenda

1. [Introduction](#)
2. [The dataset](#)
3. [Querying your documents](#)
4. [\(Optional\) What if I wanted to use my own documents?](#)

## Introduction

SageMaker Canvas lets users ask questions or have conversations and get responses that are grounded in their enterprise's data. Ensuring the results they get back are specific to their context and not some generic replies. This release makes it possible to connect Canvas directly to your existing knowledge-bases or upload new knowledge as/when required and be able to perform conversation-AI in a friction-less manner. A cloud administrator can configure Amazon Kendra indexes as data sources for SageMaker Canvas users, while SageMaker Canvas takes care

SageMaker Canvas

https://d-8oq9jk2wsi7v.studio.us-west-2.sagemaker.aws/canvas/default/readyToUseModels/canvasChat

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Query documents ⓘ

Index: CanvasImmersionDayIndex

Llama-2-7b-Chat

+ Compare

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https://catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/2-advanced-topics/8-genai/3-canvas-ent

michael\_tw\_lin

aws workshop studio

Generative AI Labs

- Introduction to Generative AI with SageMaker Canvas
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Information Extraction - Query your own documents

- Import data into SageMaker Canvas from any source
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Operationalize your models -

AWS account access

- Open AWS console (us-west-2)
- Get AWS CLI credentials

Content preferences

Language: English

Event ends in 2 days 19 hours 59 minutes.

What do I do if my L Series type C double acting actuator is leaking?

For the questions asked, the chat will show the answer generated by the foundation model, along with the source documents that contributed to generating the answer. When clicking any of the source documents, SageMaker Canvas opens a preview of the document, highlighting the excerpt used by the foundation model.

Ready-to-use models / Generate, extract and summarize content

DCN00669(1)\_QTRCO\_IOM\_LDA\_typeC

Install-Operate-Maintain  
L Series type-C Double Acting Actuators

3.5 ROD SEAL AND BUSHING REPLACEMENT

1. Inspect the piston for any corrosion or wear (galling, cracking). If significant corrosion or wear is apparent a new actuator or cylinder assembly must be considered.  
2. Lubricate the internal surface of the cylinder with a light coat of the correct QTRCO approved lubricant and slide the cylinder back over the piston and into the cylinder seal groove of the base plate. Make sure the piston is seated in the cylinder seal groove.  
3. Place the end cap back over the live rods. Be sure that the cylinder is seated in the cylinder seal groove of the end cap with the cylinder seal still in place between the cylinder and the end cap.  
4. Secure the end cap with the two hex nuts removed in step two. Hand tighten, and then torque the hex nuts to half and then full values according to the table below using the pattern designated.  
5. Ensure the end cap with the two hex nuts removed in step two. Hand tighten, and then torque the hex nuts to half and then full values according to the table below using the pattern designated.  
6. Clean the bushing and o-ring grooves of any contaminants.  
7. Replace the rod bushing, o-ring, and upper ring.  
8. Fill the remaining space in the groove with the proper QTRCO approved lubricant.  
9. Clean the output nut; inspect for wear or damage, and replace if necessary.  
10. Lower the piston assembly back into the housing.  
11. Lubricate the internal surface of the cylinder with a light coat of the correct QTRCO approved lubricant and slide the cylinder back over the piston and into the cylinder seal groove of the base plate. Make sure the piston is seated in the cylinder seal groove.  
12. Place the end cap back over the live rods. Be sure that the cylinder is seated in the cylinder seal groove of the end cap with the cylinder seal still in place between the cylinder and the end cap.

Claude Instant

What do I do if my L Series type C double acting actuator is leaking?

Based on the documents provided, if an L Series type C double acting actuator is leaking, some things to check include:

- Damaged cylinder seals - See section 3.4 for instructions on replacing the piston o-ring which could be causing leakage.
- Damaged rod seals - See section 3.5 for instructions on replacing the rod seal and bushing which could be causing leakage.
- Tightening the travel stop nut if it is loose.
- Checking for damage to the piston o-ring and replacing if needed as outlined in section 3.4.
- Internal contaminants preventing proper sealing which may require cleaning/replacing components as described in sections 3.4-3.5.

So in summary, the key sections to check for instructions on resolving leaks would be 3.4 for replacing the piston o-ring and 3.5 for replacing the rod seals. Hopefully one of these maintenance procedures helps resolve the leakage issue.

Source

- DCN00669(1)\_QTRCO\_IOM\_LDA\_typeC
- DCN00669(1)\_QTRCO\_IOM\_LDA\_typeC
- DCN00669(1)\_QTRCO\_IOM\_LDA\_typeC
- DCN00669(1)\_QTRCO\_IOM\_LDA\_typeC

Index

final-kendracanvas-index

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## Generate, extract and summarize content

+ New chat

Query documents ⓘ

Index  
CanvasImmersionDayIndex

∞ Llama-2-7b-Chat



What do I do if my L Series type C double acting actuator is leaking?



Based on the provided documents, if your L Series type C double acting actuator is leaking, you should follow these steps:

1. Inspect the piston for any corrosion or wear (pitting, cracking). If excessive corrosion or wear is apparent, a new actuator or actuator components may be necessary.
2. Lubricate the internal surface of the cylinder with a light coat of the correct QTRCO approved lubricant.
3. Slide the cylinder back over the piston and into the cylinder seal groove of the base plate, taking care not to pinch the piston o-ring.
4. Replace the piston o-ring and wiper ring as needed. Be sure to lubricate the new o-ring and wiper ring with the correct QTRCO approved lubricant.
5. Install-Operate-Maintain the L Series type-C Double Acting Actuators according to the instructions provided in the documents.

It is important to note that if you are not comfortable with the maintenance and repair of your actuator, it is recommended to contact QTRCO with any questions at [info@qtrco.com](mailto:info@qtrco.com) or 281-516-0277.

### Source

1. DCN00669(1)\_QTRCO\_IOM\_L...
2. DCN00669(1)\_QTRCO\_IOM\_L...
3. DCN00677(1)\_QTRCO\_IOM\_L...
4. DCN00669(1)\_QTRCO\_IOM\_L...
5. DCN00677(1)\_QTRCO\_IOM\_L...



Ask me anything...





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# Generate, extract and summarize content

+ New chat

Query documents ⓘ

Index

CanvasImmersionDayIndex

DCN00669(1)\_QTRCO\_IOM\_LDA\_typeC

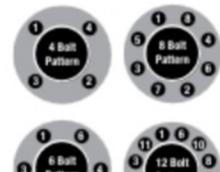


Install-Operate-Maintain  
L Series type-C Double Acting Actuators



7. Inspect the piston for any corrosion or wear (pitting, cracking). If excessive corrosion or wear is apparent a new actuator or actuator components may be necessary.
8. Lubricate the internal surface of the cylinder with a light coat of the correct QTRCO approved lubricant and slide the cylinder back over the piston and into the cylinder seal groove of the base plate, taking care not to pinch the piston o-ring.
9. Place the end cap back over the tie rods. Be sure that the cylinder is seated in the cylinder seal groove of the end cap with the cylinder seal still in place between the cylinder and the end cap.
10. Secure the end cap with the tie rod hex nuts removed in step two. Hand tighten, and then torque the hex nuts to half and then full values according to the table below using the pattern designated.

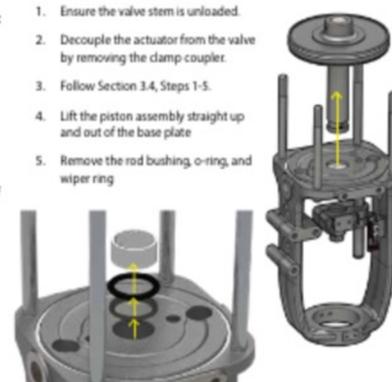
MODEL	LB* FT	Nm
L04	10	14
L06	20	27
L08	35	48
L10	35	48
L12	35	48
L14	56	76
L16	56	76
L20	58	79
L24	87	118



11. Reset the travel stop
12. Leak Test
13. Reinstate the actuator to service

## 3.5 ROD SEAL AND BUSHING REPLACEMENT

1. Ensure the valve stem is unloaded.
2. Decouple the actuator from the valve by removing the clamp coupler.
3. Follow Section 3.4, Steps 1-5.
4. Lift the piston assembly straight up and out of the base plate
5. Remove the rod bushing, o-ring, and wiper ring



6. Clean the bushing and o-ring grooves of any contaminants.
7. Replace the rod bushing, o-ring, and wiper ring.
8. Fill the remaining space in the grooves with the proper QTRCO approved lubricant.
9. Clean the output rod, inspect for wear or damage, and replace if necessary.
10. Lower the piston assembly back into the baseplate.
11. Lubricate the internal surface of the cylinder with a light coat of the correct QTRCO approved lubricant and slide the cylinder back over the piston and into the cylinder seal groove of the base plate, taking care not to pinch the piston o-ring.
12. Place the end cap back over the tie rods. Be sure that the cylinder is seated in the cylinder seal groove of the end cap with the cylinder seal still in place between the cylinder and the end cap.

∞ Llama-2-7b-Chat



What do I do if my L Series type C double acting actuator is leaking?



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It is important to note that if you are not comfortable with the maintenance and repair of your actuator, it is recommended to contact QTRCO with any questions at

[info@qtrco.com](mailto:info@qtrco.com) or 281-516-0277



Ask me anything...





Q s3 X

Oregon ▾ WSPParticipantRole/Participant @ 3281-4040-8640 ▾

## Amazon Kendra

Indexes

CanvasImmersionDay

### ▼ Data management

#### Data sources

FAQs

Facet definition

Search indexed content

### ▼ Enrichments

Synonyms

Query suggestions

Document enrichment

Featured results New

Experiences

Analytics

Services (8)

Features (31)

Resources New

Documentation (24,318)

Knowledge Articles (291)

Marketplace (1,598)

Blogs (1,367)

Events (25)

Tutorials (13)

Search results for 's3'

## Services

See all 8 results ▶



S3

Scalable Storage in the Cloud



S3 Glacier ☆

Archive Storage in the Cloud



AWS Snow Family ☆

Large Scale Data Transport



Storage Gateway ☆

Hybrid Storage Integration

## Features

See all 31 results ▶

### Imports from S3

DynamoDB feature

### Batch Operations

S3 feature

### Buckets

X ⓘ

Stop sync Actions ▾

Current sync state  
Idle

Next scheduled sync  
-

S3 buckets | S3 | Global SageMaker Canvas

https://s3.console.aws.amazon.com/s3/home?region=us-west-2

Services Search [Option+S] Global WSParticipantRole/Participant @ 3281-4040-8640

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

### Amazon S3

Buckets Access Grants Access Points Object Lambda Access Points Multi-Region Access Points Batch Operations IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens Dashboards Storage Lens groups AWS Organizations settings

Feature spotlight 7 AWS Marketplace for S3

### Amazon S3

#### Account snapshot

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

Total storage Object count Average object size

Pending Pending Pending

You can enable advanced metrics in the "default-account-dashboard" configuration.

[View Storage Lens dashboard](#)

#### General purpose buckets

General purpose buckets (2) [Info](#)

Buckets are containers for data stored in S3.

Find buckets by name

[Create bucket](#)

Name	AWS Region	Access	Creation date
<a href="#">kendra-bucket-328140408640</a>	US West (Oregon) us-west-2	Bucket and objects not public	March 18, 2024, 14:39:05 (UTC+08:00)
<a href="#">sagemaker-us-west-2-328140408640</a>	US West (Oregon) us-west-2	Bucket and objects not public	March 18, 2024, 14:35:38 (UTC+08:00)

A red arrow points to the first bucket entry: [kendra-bucket-328140408640](#).

SageMaker Canvas

vghks-canvas-20240319

kendra-bucket-328140408640

https://s3.console.aws.amazon.com/s3/buckets/kendra-bucket-328140408640?region=us-west-2&bucketType=general&tab=objects

aws Services Search [Option+S] Global WSParticipantRole/Participant @ 3281-4040-8640

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

### Amazon S3

Buckets

- Access Grants
- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

- Dashboards
- Storage Lens groups
- AWS Organizations settings

Feature spotlight 7

Amazon S3 > Buckets > kendra-bucket-328140408640

## kendra-bucket-328140408640

Info Objects Properties Permissions Metrics Management Access Points

### Objects (42) Info

Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

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](#)

DCN00669(1) 1 match

Name	Type	Last modified	Size	Storage class
DCN00669(1)_QTRCO_I OM_LDA_typeC.pdf	pdf	March 18, 2024, 14:39:46 (UTC+08:00)	1.4 MB	Standard

AWS Marketplace for S3

SageMaker Canvas

vghks-canvas-20240319 DCN00669(1)\_QTRCO\_IOM\_LD SageMaker Canvas

https://s3.console.aws.amazon.com/s3/object/kendra-bucket-328140408640?region=us-west-2&bucketType=general&prefix=DCN00669(1)\_QTRCO\_IOM\_LD\_typeC.pdf

aws Services Search [Option+S] Global WSParticipantRole/Participant @ 3281-4040-8640

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Amazon S3 Buckets Access Grants Access Points Object Lambda Access Points Multi-Region Access Points Batch Operations IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens Dashboards Storage Lens groups AWS Organizations settings

Feature spotlight 7

AWS Marketplace for S3

Amazon S3 > Buckets > kendra-bucket-328140408640 > DCN00669(1)\_QTRCO\_IOM\_LDA\_typeC.pdf

# DCN00669(1)\_QTRCO\_IOM\_LDA\_typeC.pdf Info

Properties Permissions Versions

**Object overview**

Owner	s3://kendra-bucket-328140408640/DCN00669(1)_QTRCO_IOM_LDA_typeC.pdf
AWS Region	US West (Oregon) us-west-2
Last modified	March 18, 2024, 14:39:46 (UTC+08:00)
Size	1.4 MB
Type	pdf

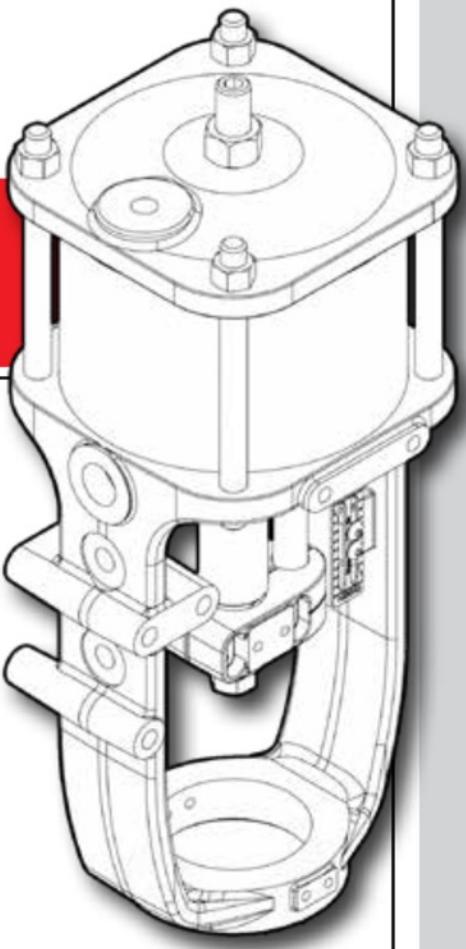
**S3 URI**

**Amazon Resource Name (ARN)**

**Entity tag (Etag)**

**I O M**  
INSTALL-OPERATE-MAINTAIN

**L Series type-C**  
**Double Acting Actuators**



**EAP**  
M A T I C A C T U A T O R S

https://us-west-2.console.aws.amazon.com/console/home?region=us-west-2#

Services

kendra

Search results for 'kendra'

Services (1)

Amazon Kendra

Highly accurate enterprise search service powered by machine learning

Resources New

Documentation (4,145)

Knowledge Articles (2)

Marketplace (37)

Blogs (113)

Events (4)

Tutorials (1)

Amazon Kendra

Introducing resource search

Enable to show cross-region resources for your account in search results. Takes less than 5 minutes to set up.

Dismiss

Go to Resource Explorer

Amazon Kendra

User Guide

See all 4,145 results ▶

Amazon Kendra

Developer Guide

Amazon Kendra

AWS Whitepaper

+ Add widgets

Create application

fault layout

Originating account

application cost, security findings, and e.

posts per month

USD)

Console

Recent

S3

Amazon Kendra

Amazon Kendra

AWS

VPC

Welcome

A screenshot of the AWS Lambda console showing the execution history for a function named "SageMaker Canvas".

The browser tabs are:

- vghks-canvas-20240319
- Amazon Kendra | us-west-2
- SageMaker Canvas

The URL in the address bar is <https://us-west-2.console.aws.amazon.com/kendra/home?region=us-west-2#indexes>.

The AWS navigation bar includes:

- Services
- Search [Option+S]
- EC2
- VPC
- RDS
- S3
- Support
- Amazon SageMaker
- AWS DeepRacer
- CloudFormation

The Amazon Kendra sidebar shows:

- Indexes (1)

The main content area displays the "Indexes" page for Amazon Kendra, showing one index:

Name	Status	Creation time	Last modified time	Document count
CanvasImmersionDayIndex	Active	Mar 18, 2024, 2:39 PM GMT+8	Mar 18, 2024, 2:39 PM GMT+8	41

A red arrow points to the index name "CanvasImmersionDayIndex".

Amazon Kendra | us-west-2 SageMaker Canvas

https://us-west-2.console.aws.amazon.com/kendra/home?region=us-west-2#indexes/ea285411-f821-4513-8664-63d44c550b

Services Search [Option+S] Oregon WSParticipantRole/Participant @ 3281-4040-8640

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

## Amazon Kendra

### Indexes

#### CanvasImmersionDayIndex

**Data management**

- Data sources** 
- FAQs
- Facet definition
- Search indexed content

**Enrichments**

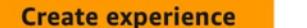
- Synonyms
- Query suggestions
- Document enrichments
- Featured results 
- Experiences
- Analytics

## Getting started

**Step 1. Create an index**  
An index is the place where you add your data sources to make them searchable in Amazon Kendra.

**Step 2. Add data sources**  
Add and sync your data from S3, SharePoint, and other databases to your index.

**Step 3. Design, tune and share your search experience**  
Quickly create and customize your search application using Experience Builder. Share your search experience with others using a generated endpoint URL.

Active  Added  Add data sources 

### Index settings

Edit Delete

A screenshot of the AWS Lambda console showing the execution history for a function named "vghks-canvas-20240319".

The browser tabs are:

- vghks-canvas-20240319
- Amazon Kendra | us-west-2
- SageMaker Canvas

The URL in the address bar is <https://us-west-2.console.aws.amazon.com/kendra/home?region=us-west-2#indexes/ea285411-f821-4513-8664-63d44c550b>.

The AWS navigation bar shows the user is in the Oregon region with the role WSParticipantRole/Participant @ 3281-4040-8640.

The left sidebar for Amazon Kendra includes sections for Indexes, CanvasImmersionDayIndex, Data management (with Data sources selected), FAQs, Facet definition, Search indexed content, and Enrichments (with Synonyms, Query suggestions, Document enrichments, and Featured results New).

The main content area shows the "Data sources" page for the "CanvasImmersionDayIndex". It displays one data source named "kendra-S3DataSource" which is S3-based, Active, and has succeeded in its last sync (Mar 18, 2024, 8:22 PM GMT+8). A red arrow points to the "kendra-S3DataSource" link.

Name	Source	Data source state	Default language	Last sync time	Last sync status
kendra-S3DataSource	S3	Active	English (en)	Mar 18, 2024, 8:22 PM GMT+8	Succeeded

Amazon Kendra | us-west-2 SageMaker Canvas

https://us-west-2.console.aws.amazon.com/kendra/home?region=us-west-2#indexes/ea285411-f821-4513-8664-63d44c550b

Services Search [Option+S] Oregon WSParticipantRole/Participant @ 3281-4040-8640

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Amazon Kendra Indexes CanvasImmersionDayIndex Data sources kendra-S3DataSource

## kendra-S3DataSource [Info](#)

Sync now Stop sync Actions ▾

### Data source details

Name	kendra-S3DataSource	Status	Active	Last sync status	Successful - service is operating normally	Current sync state	Idle
Description	-	Type	S3	Next scheduled sync	-	Last sync time	Mar 18, 2024, 8:21 PM GMT+8
Data source ID	53a6a795-6d3c-4769-80bb-5a171a00b6a3	IAM role ARN	arn:aws:iam::328140408640:role/kendra-DataSourceRole				
Default language	<a href="#">Info</a>	English (en)					

Sync history Settings Tags

► Sync history reports - optional [Info](#)

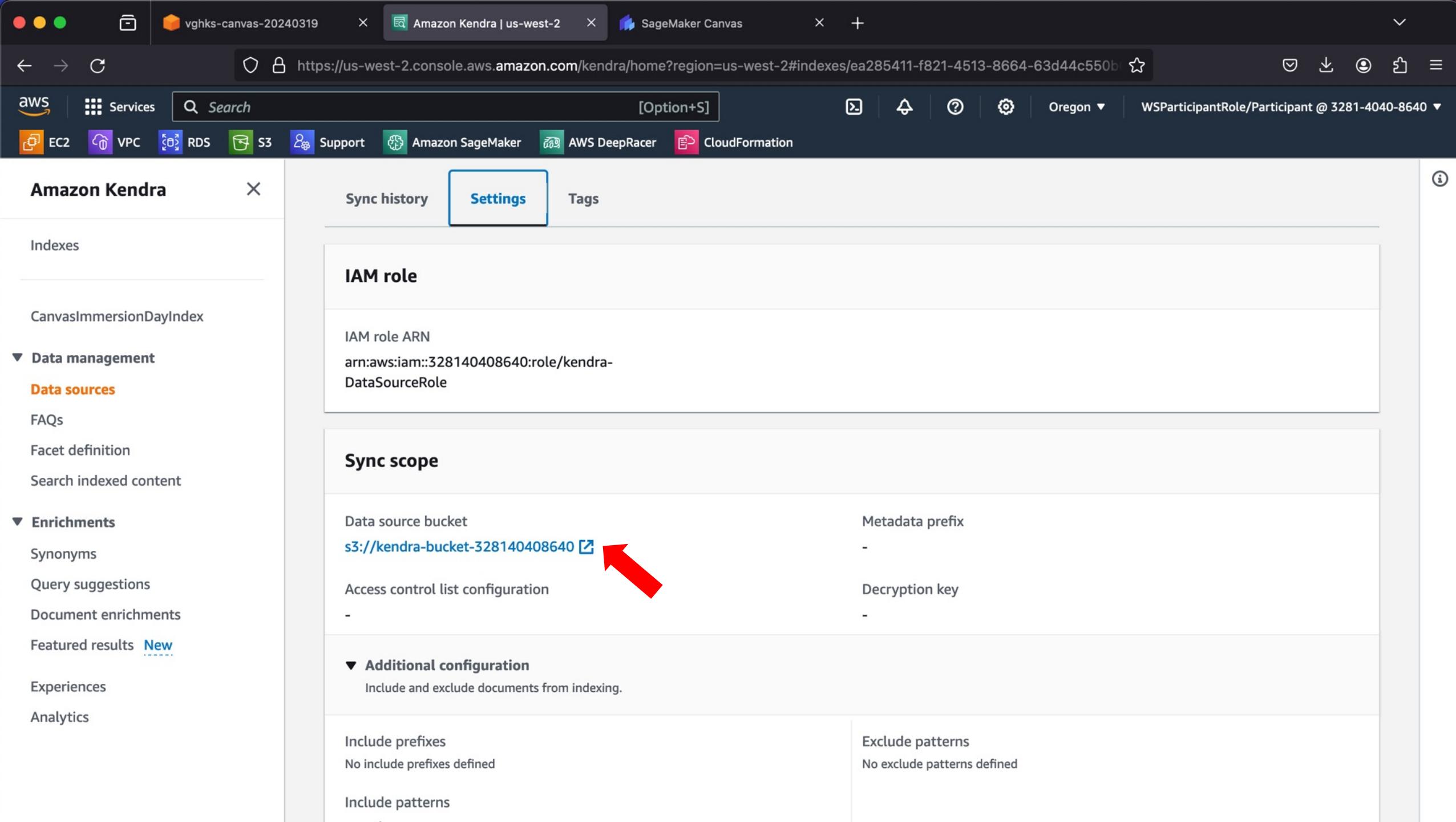
Sync history reports track each file's status during sync run. Reports are auto-generated and saved in your Amazon S3 bucket.

Indexes CanvasImmersionDayIndex Data sources kendra-S3DataSource

Data management Data sources FAQs Facet definition Search indexed content

Enrichments Synonyms Query suggestions Document enrichments Featured results [New](#)

Experiences Analytics



# Thank you!

Michael Lin

[linmicht@amazon.com](mailto:linmicht@amazon.com)

