

Lab 1 SageMaker Canvas





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1. By using the Event Engine for the relevant event, you agree to the [AWS Event Terms and Conditions](#) and the [AWS Acceptable Use Policy](#). You acknowledge and agree that are using an AWS-owned account that you can only access for the duration of the relevant event. If you find residual resources or materials in the AWS-owned account, you will make us aware and cease use of the account. AWS reserves the right to terminate the account and delete the contents at any time.
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Enter your event hash

A 12 or 16 digit hash that was given to you for this event or for a specific team

#

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Enter your event hash

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#

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Sign in with

Pick the sign-in method you prefer

Email One-Time Password (OTP)

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

Login with Amazon

Login with your Amazon.com retail account

Amazon Employee

(For Amazon Employees Only) Login with your Amazon Corporate account

[Get help signing in](#)



One-time email passcode

Send a passcode to the email below.

Email

Back

Send passcode

[Get help signing in](#)



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](#)

[Back](#)[Sign in](#)

[Get help signing in](#)

- ← → X ↶ ↑ ☆

us-east-1.signin.aws.training/otp/challenge?state=ZXIKMWMMyVnIVRzI2YkVsa0lqb2lkWE10WIdGemRDMHhYMHRqV0Vkt2RHeFNXU0lzSW5CeWIzWnBaR1...



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](#)

[Back](#)[Sign in](#)

[Get help signing in](#)

✓ Signin successful. Redirecting...



Event Engine - Team Dashboard X +

← → C ⌂ 🔒 dashboard.eventengine.run/dashboard

Dashboard

Exit Event

Team Dashboard



Event

AWS Console

SSH Key

Event: NoCodeWorkshop2

Team Name: (Team Name Not Set Yet)

Event ID:

Team ID:

Team Dashboard



AWS Console Login

Remember to only use "us-east-1" as your region, unless otherwise directed by the event operator.

Login Link

[Open AWS Console](#)[Copy Login Link](#)

Credentials / CLI Snippets

[Mac / Linux](#)[Windows](#)[Mac or Linux](#)

```
export AWS_DEFAULT_REGION=us-east-1  
export AWS_ACCESS_KEY_ID=[REDACTED]  
export AWS_SECRET_ACCESS_KEY=[REDACTED]  
export AWS_SESSION_TOKEN=[REDACTED]
```

How do I use the AWS CLI?

Checkout the AWS CLI documentation here: <https://docs.aws.amazon.com/cli/latest/userguide/cli-chap-welcome.html>

[OK](#)

AWS Management Console

AWS services

▼ Recently visited services

Your recently visited AWS services appear here.

► All services

Build a solution

Get started with simple wizards and automated

Launch a virtual machine

With EC2

2-3 minutes

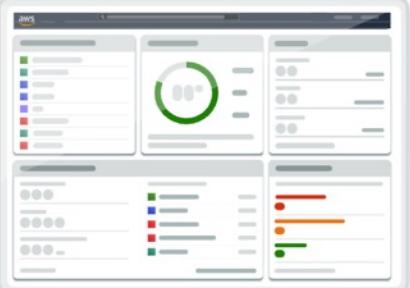


Register a domain

With Route 53

3 minutes

New AWS Console Home



Maybe later

See valuable insights for your account and services with the new customizable Console Home experience. [Learn more](#)

Switch to the new Console Home

New AWS Console Home

valuable insights for your account and services with the new customizable Console Home experience.

[more](#)



Switch now

Stay connected to your AWS resources on-the-go

AWS Console Mobile App now supports four additional regions. Download the AWS Console Mobile App to your iOS or Android mobile device. [Learn more](#)

Explore AWS

Free AWS Training

Advance your career with AWS Cloud Practitioner Essentials—a free, six-hour,



Services

sagemaker Canvas



N. Virginia

TeamRole/MasterKey @ 3086-6786-0633

The new AWS Console
Starting June 2022,
let us know what you think.

Services (2)

Features (4)

Blogs (666)

Documentation (62,803)

Knowledge Articles (24)

Tutorials (9)

Events (7)

Marketplace (136)

Search results for 'sagemaker'

Services



Amazon SageMaker

Build, Train, and Deploy Machine Learning Models



AWS Glue DataBrew

Visual data preparation tool to clean and normalize data for analytics and machine learning

Features

SageMaker Studio

Amazon SageMaker feature

SageMaker Canvas

Amazon SageMaker feature

Notebooks

IoT Analytics feature

Autopilot

Amazon SageMaker feature

Blogs

See all 666 results ▶

With EC2

With Elastic Beanstalk

With Lambda

Switch now

Console Home



Add to your AWS mobile device

Mobile App now available in our additional regions. Download the AWS Console Mobile App for iOS or Android mobile devices. Learn more

Event Engine - Team Dashboard X Amazon SageMaker X +

https://us-east-1.console.aws.amazon.com/sagemaker/home?region=us-east-1#/landing

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Amazon SageMaker

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.

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 models efficiently.

New user onboarding guide NEW

Getting started

Control panel

Studio

Studio Lab NEW

Canvas NEW

RStudio NEW

SageMaker dashboard

Images

Search

► Ground Truth

► Notebook

► Processing

► Training

► Inference

► Edge Manager

New to SageMaker?

Get started with Amazon SageMaker by completing the quick start guide.

Get Started

Documentation

Getting started

Tutorials

Documentation

Developer Resources

AWS Developer Forum

Contact us

Event Engine - Team Dashboard X Amazon SageMaker X + https://us-east-1.console.aws.amazon.com/sagemaker/home?region=us-east-1#/getting-started

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Amazon SageMaker Getting Started

Getting started

- Control panel
- Studio
- Studio Lab  NEW
- Canvas  NEW
- RStudio  NEW

SageMaker dashboard

- Images
- Search
- Ground Truth
- Notebook
- Processing
- Training
- Inference
- Edge Manager

1. Configure SageMaker Domain

Quick setup (1 min) Standard setup (10 min)

A quick setup for a single user that allows full use of SageMaker in less than one minute.

 Set up SageMaker Domain

Set up SageMaker Domain

2. Learn by doing

Automatic model creation (10 min) End-to-end workflow (60 min)

Create a machine learning model automatically with About this tutorial

Event Engine - Team Dashboard X Amazon SageMaker X +

https://us-east-1.console.aws.amazon.com/sagemaker/home?region=us-east-1#/studio/create-domain/quick-setup

Services Search for services, features, blogs, docs, and more [Option+S]

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Setup SageMaker Domain

Use SageMaker Domain as the central store to manage the configuration of SageMaker for your organization.

Quick setup

Let Amazon SageMaker configure your account, and set up permissions for your SageMaker Domain.

- Public internet access, and standard encryption
- SageMaker Studio Integration
- Sharable SageMaker Studio Notebooks
- IAM Authentication

Standard setup

Control all aspects of account configuration, including permissions, integrations, and encryption.

- Advanced network security, and data encryption
- SageMaker Studio, and RStudio integration
- SageMaker Studio Projects, and Jumpstart configurable
- IAM, or SSO authentication

User profile

Name

default-1651912304819

The name can have up to 63 characters. Valid characters: A-Z, a-z, 0-9, and - (hyphen)

Default execution role

SageMaker Domain requires permissions for its users to access other AWS services, such as Amazon SageMaker and Amazon S3. For a broad range of capabilities, you may attach the [AmazonSageMakerFullAccess](#) policy to the execution role. If you don't have a role with this policy, we can create one for you.

TeamRole

Cancel

Submit

Event Engine - Team Dashboard X Amazon SageMaker X + https://us-east-1.console.aws.amazon.com/sagemaker/home?region=us-east-1#/studio/d-vfsiyvx5xip

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Amazon SageMaker Getting started Control panel Studio Studio Lab NEW Canvas NEW RStudio NEW SageMaker dashboard Images Search ▶ Ground Truth ▶ Notebook ▶ Processing ▶ Training ▶ Inference ▶ Edge Manager

Preparing SageMaker Domain We are configuring the quickstart user [default-1651912304819] and resources needed by the domain. This is a one-time configuration and may take a few minutes.

Amazon SageMaker Control Panel Configure and manage SageMaker domain, users, and apps.

Users

Search users < 1 > **Domain** Status Pending Authentication method AWS Identity and Access Management (IAM)

No users To add a user, choose Add user and enter a user name.

Apps

Configure and launch apps to manage your ML workflow using SageMaker.

Studio Studio Lab Canvas RStudio

Execution role arn:aws:iam::308667860633:role/TeamRole

Domain ID d-vfsiyvx5xip

Studio

Event Engine - Team Dashboard X | Amazon SageMaker X | S3 Management Console X | +

https://us-east-1.console.aws.amazon.com/sagemaker/home?region=us-east-1#/studio/d-vfsiyvx5xip

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Amazon SageMaker X

The SageMaker Domain is ready
Choose your user name, then choose Launch app to get started.

Getting started

Control panel

Studio

Studio Lab NEW

Canvas NEW

RStudio NEW

SageMaker dashboard

Images

Search

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▶ Processing

▶ Training

▶ Inference

▶ Edge Manager

Amazon SageMaker Control Panel

Configure and manage SageMaker domain, users, and apps.

Users

Name	Modified on	Created on	Action
default-1651912304819	May 07, 2022 08:37 UTC	May 07, 2022 08:37 UTC	Launch app

Domain

Status ⓘ Ready

Authentication method ⓘ AWS Identity and Access Management (IAM)

Domain ID ⓘ d-vfsiyvx5xip

Execution role ⓘ arn:aws:iam::308667860633:role/TeamRole

Control Panel

Configure and manage SageMaker domain, users, and apps.

Users

Name	Modified on	Created on	Action
default-1651912304819	May 07, 2022 08:37 UTC	May 07, 2022 08:37 UTC	Launch app

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Studio Studio Lab Canvas RStudio

Studio

Amazon SageMaker Studio provides a single, web-based visual interface where you can perform all ML development steps, including

https://us-east-1.console.aws.amazon.com/sagemaker/home?region=us-east-1#/canvas-landing

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Amazon SageMaker

Getting started

Control panel

Studio

Studio Lab NEW

Canvas NEW 

RStudio NEW

SageMaker dashboard

Images

Search

► Ground Truth

► Notebook

► Processing

► Training

► Inference

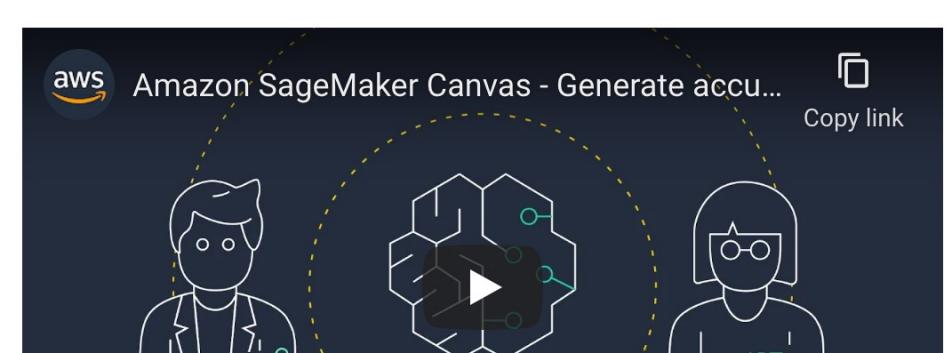
► Edge Manager

Amazon SageMaker

SageMaker Canvas

Generate accurate machine learning predictions — no code required

How it works



Copy link

Get Started

Get started with Amazon SageMaker Canvas

Launch SageMaker Canvas

Pricing (US)

AWS Free Tier

If you are new to SageMaker you are eligible for the AWS Free Tier which includes up to 10 models with up to 1M cells of data free for the first 2 months.

[Learn More](#)

Documentation

Event Engine - Team Dashboard X Amazon SageMaker X S3 Management Console X | +

https://us-east-1.console.aws.amazon.com/sagemaker/home?region=us-east-1#/studio/d-vfsiyvx5xip

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Amazon SageMaker Control Panel

Configure and manage SageMaker domain, users, and apps.

Users

Name	Modified on	Created on
default-1651912304819	May 07, 2022 08:37 UTC	May 07, 2022 08:37 UTC

Launch app

Apps

Configure and launch apps to manage your ML workflow using SageMaker.

Studio Studio Lab Canvas RStudio

Studio

Amazon SageMaker Studio provides a single, web-based visual interface where you can perform all ML development steps, including building notebooks, experiment management, automatic model creation, debugging, and model and data drift detection.

Learn more

Domain

Status ⓘ Ready

Authentication method ⓘ AWS Identity and Access Management (IAM)

Domain ID ⓘ d-vfsiyvx5xip

Execution role ⓘ arn:aws:iam::308667860633:role/TeamRole



Event Engine - Team Dashboard X Amazon SageMaker X S3 Management Console X | +

https://us-east-1.console.aws.amazon.com/sagemaker/home?region=us-east-1#/studio/d-vfsiyvx5xip

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Amazon SageMaker Control Panel

Configure and manage SageMaker domain, users, and apps.

Users

Name	Modified on	Created on
default-1651912304819	May 07, 2022 08:37 UTC	May 07, 2022 08:37 UTC

Launch app ▾
Studio
Canvas

Apps

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Studio Studio Lab Canvas RStudio

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Learn more ↗

Domain

Status ⓘ **Ready**

Authentication method ⓘ AWS Identity and Access Management (IAM)

Domain ID ⓘ d-vfsiyvx5xip

Execution role ⓘ arn:aws:iam::308667860633:role/TeamRole

Event Engine - Team Dashboard X Amazon SageMaker X S3 Management Console X | +

https://us-east-1.console.aws.amazon.com/sagemaker/home?region=us-east-1#/studio/d-vfsiyvx5xip

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Amazon SageMaker Control Panel

Configure and manage SageMaker domain, users, and apps.

Users

Name	Modified on	Created on
default-1651912304819	May 07, 2022 08:37 UTC	May 07, 2022 08:37 UTC

Apps

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Studio Studio Lab Canvas RStudio

Studio

Studio

Amazon SageMaker Studio provides a single, web-based visual interface where you can perform all ML development steps, including building notebooks, experiment management, automatic model creation, debugging, and model and data drift detection.

Learn more

Domain

Status Ready

Authentication method AWS Identity and Access Management (IAM)

Open Link in New Tab

Open Link in New Window

Open Link in Incognito Window

Save Link As...

Copy Link Address

Inspect

08667860633: role/TeamRole



Amazon SageMaker Canvas

Creating application... 

Event Engine - Team Dashboard X | Amazon SageMaker X | S3 Management Console X | SageMaker Canvas X +

https://d-vfsiyvx5xixp.studio.us-east-1.sagemaker.aws/canvas/default/models

Amazon SageMaker Canvas

Models

Search models

+ New model

Models

Datasets

Help

Account

You haven't created any models yet.

Create a new model.

A red arrow points to the 'Datasets' icon in the sidebar.

Datasets

+ Import



You haven't imported any data yet.

Import new data.

+ Import



Event Engine - Team Dashboard X | Amazon SageMaker X | S3 Management Console X | SageMaker Canvas X +

https://d-vfsiyvx5xixp.studio.us-east-1.sagemaker.aws/canvas/default/datasets

Import X

 Upload S3 Add connection

Choose files to import

Amazon S3

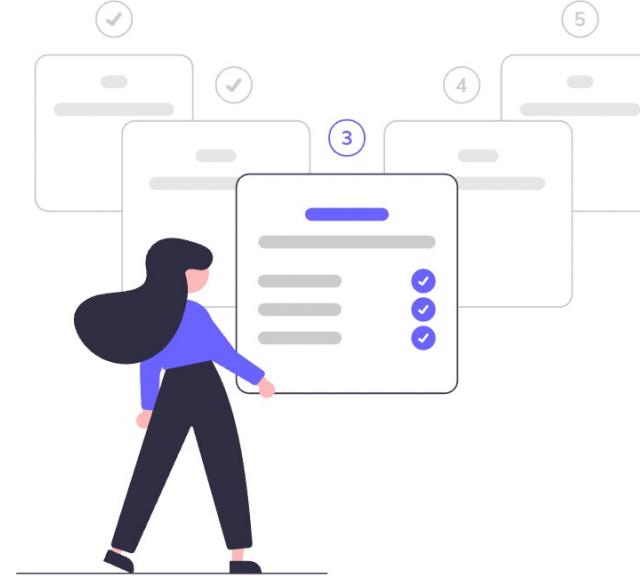
<input type="checkbox"/>	Name	Created on ↓
<input type="checkbox"/>	sagemaker-us-east-1-308667860633	05/07/2022 4:42 PM
<input type="checkbox"/>	sagemaker-studio-308667860633-h984qtyxmy	05/07/2022 4:31 PM

Event Engine - Team Dashboard X | Amazon SageMaker X | S3 Management Console X | SageMaker Canvas X +

https://d-vfsiyvx5xixp.studio.us-east-1.sagemaker.aws/canvas/default/datasets

Import X

Upload S3 Add connection



Local file upload needs to be setup

You or your administrator need to set up the local file upload. [Learn more](#)

A red arrow points from the text "You or your administrator need to set up the local file upload." to the word "Learn more".

Give your users the ability to upload local files

PDF RSS

If your users are uploading files from their local machines, attach a CORS policy to the Amazon S3 bucket that they're using. When one of your users first accesses Amazon SageMaker Canvas, Amazon SageMaker creates an Amazon S3 bucket with a name that uses the following pattern: `sagemaker-AWS-Region-AWS-account-id`. SageMaker Canvas can add your users' data to the bucket whenever they upload a file. To give them the ability to upload local files to the bucket, you attach a CORS policy to it using the following procedure.

1. Sign in to <https://console.aws.amazon.com/s3/>.
2. Choose the bucket with the name that uses the following pattern: `sagemaker-Region-your-account-id`.
3. Choose **Permissions**.
4. Navigate to **Cross-origins resource sharing (CORS)**.
5. Choose **Edit**.
6. Add the following CORS policy:

```
[  
  {  
    "AllowedHeaders": [  
      "*"  
    ],  
    "AllowedMethods": [  
      "POST"  
    ],  
    "AllowedOrigins": [  
      "*"  
    ],  
    "ExposeHeaders": []  
  }]
```

Give your users the ability to upload local files

PDF RSS

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2. Choose the bucket with the name that uses the following pattern: `sagemaker- Region - your-account-id`.
3. Choose **Permissions**.
4. Navigate to **Cross-origins resource sharing (CORS)**.
5. Choose **Edit**.
6. Add the following CORS policy:

```
[  
  {  
    "AllowedHeaders": [  
      "*"  
    ],  
    "AllowedMethods": [  
      "POST"  
    ],  
    "AllowedOrigins": [  
      "*"  
    ],  
    "ExposeHeaders": []  
  }  
]
```



Event Engine - Team Dashboard X | Amazon SageMaker X | S3 Management Console X | SageMaker Canvas X | Give your users the ability to up X +

https://s3.console.aws.amazon.com/s3/buckets?region=us-east-1

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Amazon S3 Buckets

Buckets

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

Storage Lens

- Dashboards
- AWS Organizations settings

Feature spotlight 3

AWS Marketplace for S3

Amazon S3 > Buckets

Account snapshot

View Storage Lens dashboard

Buckets (2) Info

Buckets are containers for data stored in S3. Learn more

Find buckets by name

Name	AWS Region	Access	Creation date
sagemaker-studio-308667860633-h984qtyxmy	US East (N. Virginia) us-east-1	Objects can be public	May 7, 2022, 16:31:56 (UTC+08:00)
sagemaker-us-east-1-308667860633	US East (N. Virginia) us-east-1	Objects can be public	May 7, 2022, 16:42:00 (UTC+08:00)

Copy ARN Empty Delete Create bucket

A red arrow points to the second row of the table, specifically to the 'Name' column of the second bucket entry.

1

Event Engine - Team Dashboard X | Amazon SageMaker X | sagemaker-us-east-1-308667860633 X | SageMaker Canvas X | Give your users the ability to up X +

← → C ⌂ 🔍 https://s3.console.aws.amazon.com/s3/buckets/sagemaker-us-east-1-308667860633?region=us-east-1&tab=objects

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Amazon S3 Buckets Access Points Object Lambda Access Points Multi-Region Access Points Batch Operations Access analyzer for S3 Block Public Access settings for this account Storage Lens Dashboards AWS Organizations settings Feature spotlight 3 AWS Marketplace for S3

Amazon S3 > Buckets > sagemaker-us-east-1-308667860633

sagemaker-us-east-1-308667860633 Info

Objects Properties Permissions Metrics Management Access Points

Objects (0)

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](#)

Copy S3 URI Copy URL Download Open Delete Actions Create folder

Upload

Find objects by prefix < 1 >

Name	Type	Last modified	Size	Storage class
No objects				

You don't have any objects in this bucket.

Upload



Event Engine - Team Dashboard X | Amazon SageMaker X | sagemaker-us-east-1-308667860633 X | SageMaker Canvas X | Give your users the ability to up X +

← → C ⌂ 🔍 https://s3.console.aws.amazon.com/s3/buckets/sagemaker-us-east-1-308667860633?region=us-east-1&tab=permissions

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Amazon S3 Buckets

Access Points Object Lambda Access Points Multi-Region Access Points Batch Operations Access analyzer for S3

Block Public Access settings for this account

▼ Storage Lens Dashboards AWS Organizations settings

Feature spotlight 3

▶ AWS Marketplace for S3

Amazon S3 > Buckets > sagemaker-us-east-1-308667860633

sagemaker-us-east-1-308667860633 Info

Objects Properties Permissions Metrics Management Access Points

Permissions overview

Access

Objects can be public

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

[Edit](#)

Block all public access

⚠ Off

▶ Individual Block Public Access settings for this bucket



Event Engine - Team Dashboard X | Amazon SageMaker X | sagemaker-us-east-1-308667860633?region=us-east-1&tab=permissions X | SageMaker Canvas X | Give your users the ability to up X | +

https://s3.console.aws.amazon.com/s3/buckets/sagemaker-us-east-1-308667860633?region=us-east-1&tab=permissions

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Amazon S3 S3 log delivery group Group: http://acs.amazonaws.com/groups/s3/LogDelivery

Buckets

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

▼ Storage Lens

- Dashboards
- AWS Organizations settings

Feature spotlight 3

▶ AWS Marketplace for S3

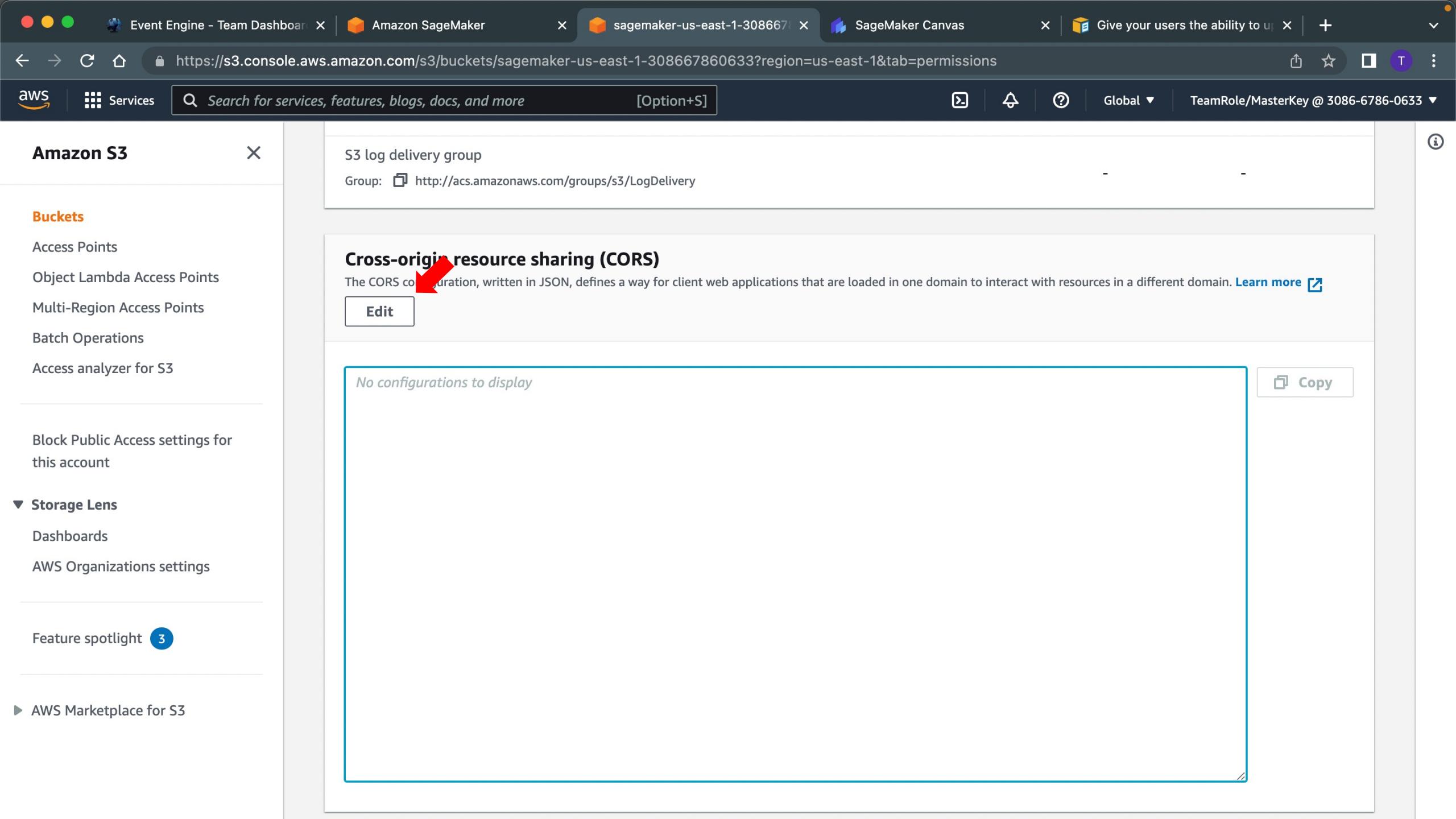
Cross-origin resource sharing (CORS)

The CORS configuration, written in JSON, defines a way for client web applications that are loaded in one domain to interact with resources in a different domain. [Learn more](#)

Edit

No configurations to display

Copy



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← → C ⌂ 🔍 https://s3.console.aws.amazon.com/s3/bucket/sagemaker-us-east-1-308667860633/property/cors/edit?region=us-east-1

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Amazon S3 Buckets Access Points Object Lambda Access Points Multi-Region Access Points Batch Operations Access analyzer for S3

Block Public Access settings for this account

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Feature spotlight 3

▶ AWS Marketplace for S3

Amazon S3 > Buckets > sagemaker-us-east-1-308667860633 > Edit cross-origin resource sharing (CORS)

Edit cross-origin resource sharing (CORS) Info

Cross-origin resource sharing (CORS)

The CORS configuration, written in JSON, defines a way for client web applications that are loaded in one domain to interact with resources in a different domain. [Learn more](#)

```
1 {  
2   "AllowedHeaders": [  
3     "*"  
4   ],  
5   "AllowedMethods": [  
6     "POST"  
7   ],  
8   "AllowedOrigins": [  
9     "*"  
10  ],  
11  "ExposeHeaders": []  
12}  
13  
14  
15
```



Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight 3

▶ AWS Marketplace for S3

Edit cross-origin resource sharing (CORS) Info

Cross-origin resource sharing (CORS)

The CORS configuration, written in JSON, defines a way for client web applications that are loaded in one domain to interact with resources in a different domain. [Learn more](#)

```
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9     "*"  
10  ],  
11  "ExposeHeaders": []  
12}  
13  
14  
15
```

Cancel

Save changes



Buckets

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

▼ Storage Lens

- Dashboards
- AWS Organizations settings

Feature spotlight 3

AWS Marketplace for S3

Amazon S3 > Buckets > sagemaker-us-east-1-308667860633

sagemaker-us-east-1-308667860633 Info

Objects Properties Permissions Metrics Management Access Points

Permissions overview

Access

Objects can be public

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

[Edit](#)

Block all public access

Off

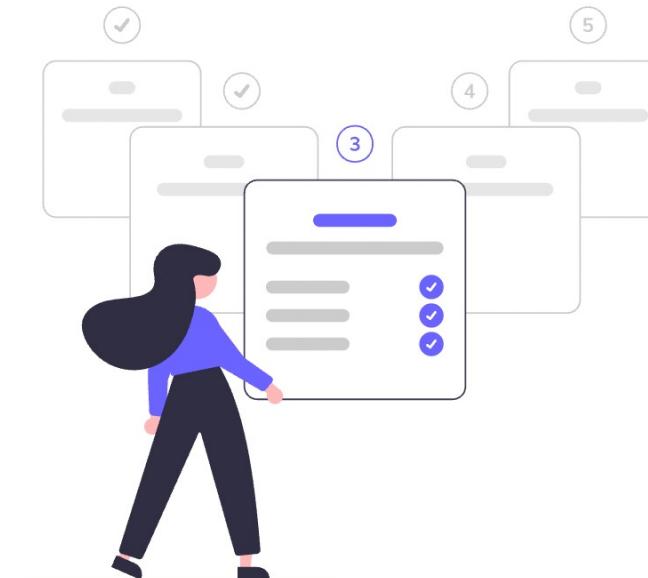
► Individual Block Public Access settings for this bucket

Import

 Upload

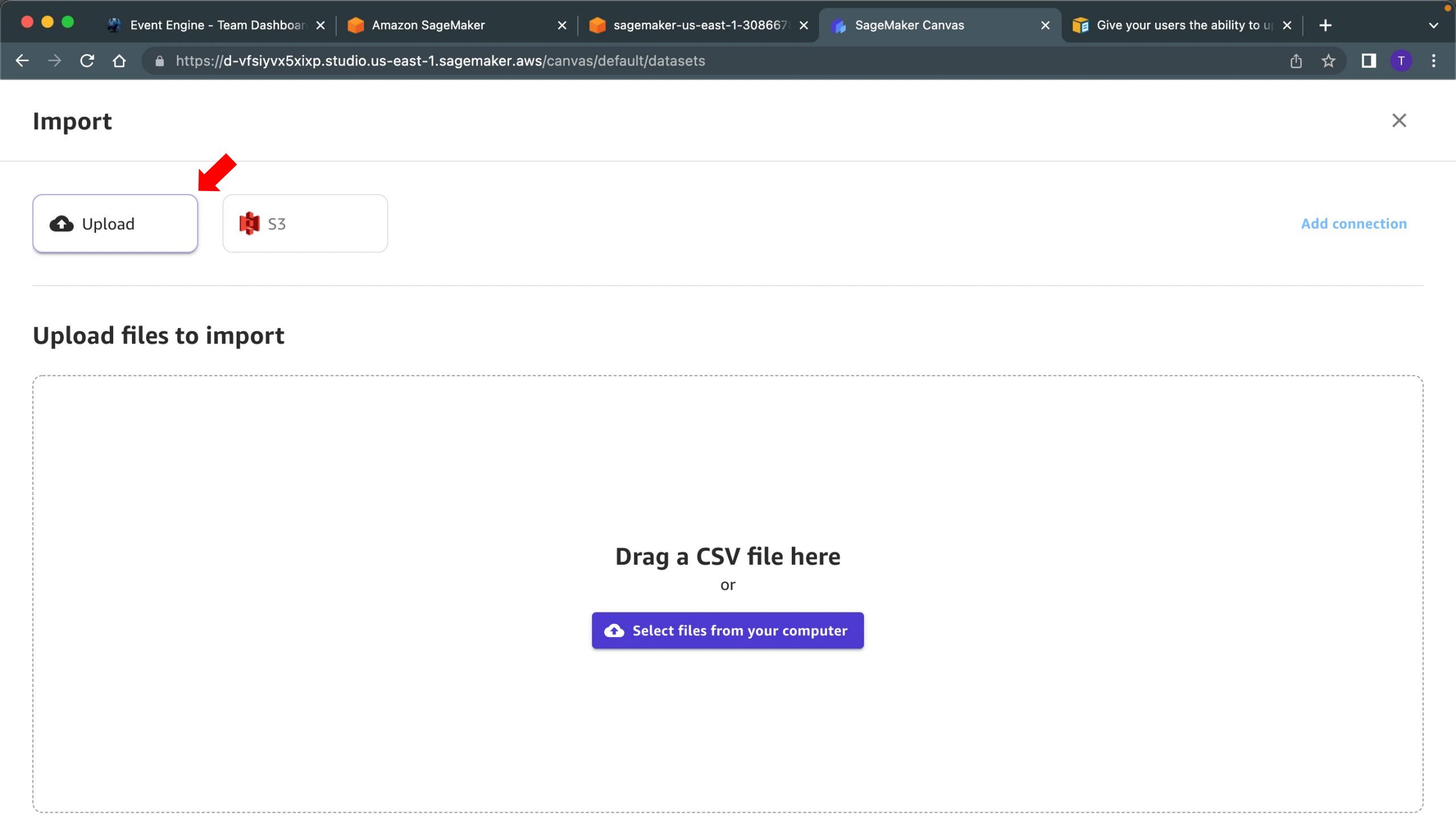
 S3

Add connection



Local file upload needs to be setup

You or your administrator need to set up the local file upload. [Learn more](#)



Import

 Upload S3[Add connection](#)

Upload files to import

Drag a CSV file here

or

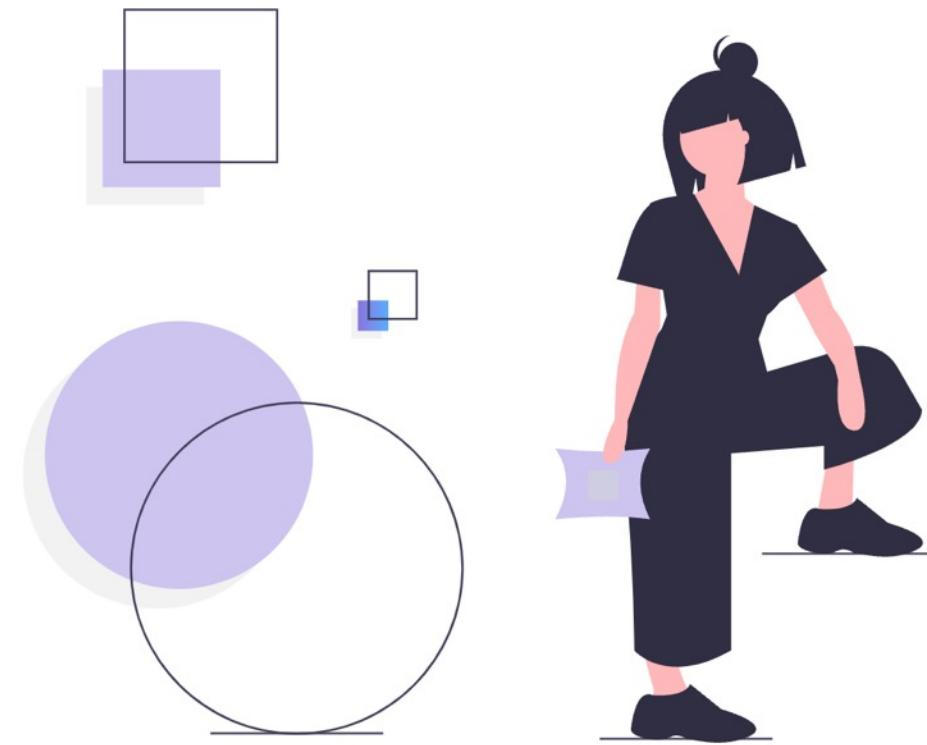
 Select files from your computer



Models

Search models

+ New model



You haven't created any models yet.

Create a new model.

+ New model



Create new model

X

Model name

Titanic 20220218

Use only letters, numbers, and underscores up to 32 characters.

Cancel

Create

You haven't created any models yet.

Create a new model.

+ New model

Select

Build

Analyze

Predict

Build your first model in 4 simple steps.

① Select data

Add or import data from different sources.

② Build model

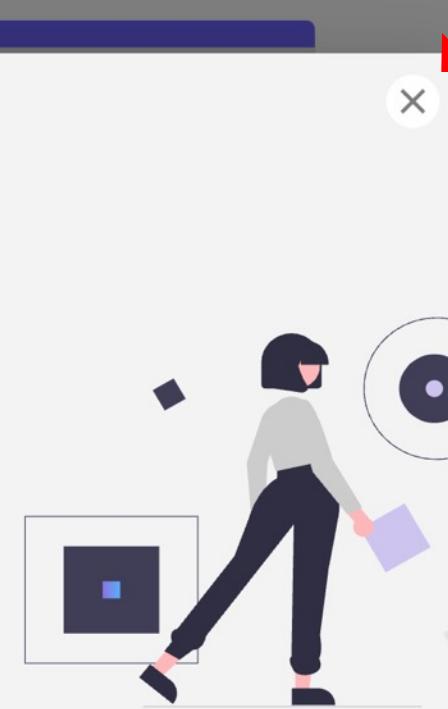
Select a column to predict and build your model.

③ Analyze results

View insights from your prediction model such as accuracy and column impact.

④ Generate predictions

Make predictions and collaborate with machine learning experts in your organization.



X

[Skip intro](#)[Continue →](#)[Import data to Canvas](#)[Close](#)

Paused

Titanic 20220218

V1 • Draft ▾

Add version

Share

⋮

Select Build Analyze Predict

Revisit the Getting Started guide.

Import data to start creating your model.

Import data to Canvas

Close

The screenshot shows the Amazon SageMaker Canvas interface for a project named "Titanic 20220218". The top navigation bar includes tabs for "Select", "Build", "Analyze", and "Predict", with "Select" being the active tab. A sidebar on the left has icons for "Select", "Build", "Analyze", "Predict", "Help", and "Do". The main content area features a 3D character icon of a man in a blue shirt and black pants standing next to a grid visualization. Below this is a large text area with the heading "Select" and the sub-instruction "Import data to start creating your model.". At the bottom is a prominent blue button labeled "Import data to Canvas". A red arrow points to this button. In the bottom right corner, there is a "Close" button.



d-iceiqcsfx9pm.studio.us-east-1.sagemaker.aws/canvas/default/models/Titanic%2020220218



T Paused



Import



Upload

S3

Add connection

Choose files to import

Amazon S3

Search Amazon S3

<input type="checkbox"/>	Name	Created on ↓
	sagemaker-us-east-1-834120567544	02/16/2022 9:06 PM
	sagemaker-studio-834120567544-5zbey54q71a	02/16/2022 8:55 PM

← → C ⌂

🔒 d-iceiqcsfx9pm.studio.us-east-1.sagemaker.aws/canvas/default/models/Titanic%2020220218

↑ ☆ ⌂ T Paused ⋮

Import

X

Upload

S3

Add connection

Upload files to import

Drag a CSV file here

or

Select files from your computer



Event Engine - Team Dashboard | sagemaker-us-east-1-8341205 | Amazon SageMaker | SageMaker Canvas | Getting started with using Ama X +

Import X

Upload S3 Add connection

Favorites

- mba
- Desktop
- Documents
- Downloads

iCloud

Shared

Locations

Network

test.csv

train.csv

winequality-red.csv

Data

Search

train.csv

Comma Separated Spreadsheet (.csv) - 61 KB

Information

Created

Show More

Yesterday, 10:23 PM

Options Cancel Open

The screenshot shows the SageMaker Canvas interface with the 'Import' dialog open. The 'Data' tab is selected. In the file list, 'train.csv' is highlighted. A preview of the CSV data is displayed as a grid of values. File details for 'train.csv' are shown below the preview, including its type ('Comma Separated Spreadsheet (.csv)'), size ('61 KB'), and creation date ('Yesterday, 10:23 PM'). At the bottom of the dialog are 'Options', 'Cancel', and 'Open' buttons.

 Upload S3[Add connection](#)

Upload files to import

Drag a CSV file here

or

 Select files from your computer

1 dataset ready to import

[Delete all](#)

train.csv



Preview

Cancel

Import data

Import X

Upload S3 Add connection

Upload files to import

Import preview Previewing first 100 rows Close preview Import data

train.csv ▾ Use first row as header ⓘ Delete

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp
1	0	3	Braund, Mr. Owen Harris	male	22	1
2	1	1	Cumings, Mrs. John Bradl...	female	38	1
3	1	3	Heikkinen, Miss. Laina	female	26	0
4	1	1	Futrelle, Mrs. Jacques He...	female	35	1
5	0	3	Allen, Mr. William Henry	male	35	0

Titanic 20220218

V1 Draft Add version Share ⌂

Select Build Analyze Predict

Select dataset

You can import a tabular dataset or choose one that has already been imported. Your dataset must contain at least one input column and a target column.

Join Import

Search datasets in Canvas

All Joined

Name	Source	Columns	Rows	Created	Status
train.csv	Local			02/16/2022 9:21 PM	Processing

Titanic 20220218

V1 • Draft ▾ [Add version](#) [Share](#) [⋮](#)

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

Select dataset

You can import a tabular dataset or choose one that has already been imported. Your dataset must contain at least one input column and a target column.

Search datasets in Canvas

[Join](#) [Import](#)

All	Joined				
Name	Source	Columns	Rows	Created	Status
<input type="radio"/> train.csv	Local	12	891	02/16/2022 9:21 PM	Ready

Event Engine - Team Dashboard X | sagemaker-us-east-1-834120E X | Amazon SageMaker X | SageMaker Canvas X | Getting started with using Ama X | +

d-iceiqcsfx9pm.studio.us-east-1.sagemaker.aws/canvas/default/models/Titanic%2020220218

V1 Draft Add version Share

Titanic 20220218

Select Build Analyze Predict

Select a column to predict

Choose the target column. The model that you build predicts values for the column that you select.

Target column

Model type

SageMaker Canvas automatically recommends the appropriate model type for your analysis.

To see a recommended model type, specify a value for the target column.

Quick build

Preview model

train(2).csv

Search columns

Column name ↓ Data type Missing Mismatched Unique Mean / Mode

Column name ↓	Data type	Missing	Mismatched	Unique	Mean / Mode
Ticket	Numeric	0.00% (0)	0.00% (0)	681	1,601
Survived	Binary	0.00% (0)	0.00% (0)	2	0
SibSp	Numeric	0.00% (0)	0.00% (0)	7	0
Sex	Binary	0.00% (0)	0.00% (0)	2	male



Select

Build

Analyze

Predict

Select a column to predict

Choose the target column. The model that you build predicts values for the column that you select.



Target column

Model type

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Quick build

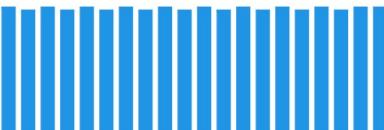
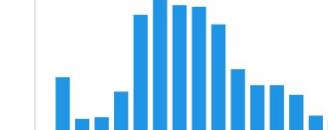
Preview model

train(2).csv



Search columns



<input checked="" type="checkbox"/> PassengerId	123	<input checked="" type="checkbox"/> Survived	Abc	<input checked="" type="checkbox"/> Pclass	123	<input checked="" type="checkbox"/> Name	A	<input checked="" type="checkbox"/> Sex	Abc	<input checked="" type="checkbox"/> Age
	1.00 846.50	 2 Categories		 1.00 2.90		 891 Values		 2 Categories		 0.42 22
1	0		3			Braund, Mr. Owen Harris	male			
2	1		1			Cumings, Mrs. John Bradley (Fl...	female			

Previewing first 100 rows

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d-iceiqcsfx9pm.studio.us-east-1.sagemaker.aws/canvas/default/models/Titanic%2020220218

V1 Draft Add version Share

Titanic 20220218

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Target column

Model type

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To see a recommended model type, specify a value for the target column.

Quick build

Preview model

train(2).csv

Search columns

<input type="checkbox"/> Column name ↓	Data type	Missing ⓘ	Mismatched ⓘ	Unique ⓘ	Mean / Mode
<input checked="" type="checkbox"/> Fare	Numeric	0.00% (0)	0.00% (0)	248	8.05
<input checked="" type="checkbox"/> Embarked	Categorical	0.22% (2)	0.00% (0)	3	S
<input type="checkbox"/> Cabin	Text	77.10% (687)	0.00% (0)	147	B96 B98
<input checked="" type="checkbox"/> Age	Numeric	19.87% (177)	0.00% (0)	88	24

A red arrow points to the 'Cabin' row in the table.

Event Engine - Team Dashboard X | sagemaker-us-east-1-834120E X | Amazon SageMaker X | SageMaker Canvas X | Getting started with using Ama X | +

d-iceiqcsfx9pm.studio.us-east-1.sagemaker.aws/canvas/default/models/Titanic%2020220218

V1 Draft Add version Share

Titanic 20220218

Select Build Analyze Predict

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Choose the target column. The model that you build predicts values for the column that you select.

Target column

Model type

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To see a recommended model type, specify a value for the target column.

Quick build

Preview model

train(2).csv

Search columns

<input type="checkbox"/> Column name ↓	Data type	Missing	Mismatched	Unique	Mean / Mode
<input type="checkbox"/> PassengerId	Numeric	0.00% (0)	0.00% (0)	891	1
<input checked="" type="checkbox"/> Parch	Numeric	0.00% (0)	0.00% (0)	7	0
<input type="checkbox"/> Name	Text	0.00% (0)	0.00% (0)	891	Abbing, Mr. Anthony
<input checked="" type="checkbox"/> Fare	Numeric	0.00% (0)	0.00% (0)	248	8.05

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← → C ⌂ 🔒 d-iceiqcsfx9pm.studio.us-east-1.sagemaker.aws/canvas/default/models/Titanic%2020220218

V1 • Draft ▾ Add version Share ⋮

Titanic 20220218

Select Build Analyze Predict

Select a column to predict

Choose the target column. The model that you build predicts values for the column that you select.

Target column

123 PassengerId
Abc Survived 

123 Pclass
train A Name
Abc Sex
 123 Age
 123 SibSp
 123 Parch
 123 Ticket
 SibSp Numeric
 Sex Binary

Model type

SageMaker Canvas automatically recommends the appropriate model type for your analysis.

To see a recommended model type, specify a value for the target column.

Quick build

Preview model

Search columns 

	Missing ⓘ	Mismatched ⓘ	Unique ⓘ	Mean / Mode
123 SibSp	0.00% (0)	0.00% (0)	681	1,601
123 Parch	0.00% (0)	0.00% (0)	2	0
123 Ticket	0.00% (0)	0.00% (0)	7	0
SibSp	0.00% (0)	0.00% (0)	7	0
Sex	0.00% (0)	0.00% (0)	2	male

Titanic 20220218

V1

● Draft

+ Add version

Share

⋮

Select

Build

Analyze

Predict

Select a column to predict

Choose the target column. The model that you build predicts values for the column that you select.

Target column
Survived

Value distribution



Model type

SageMaker Canvas automatically recommends the appropriate model type for your analysis.

💡 2 category prediction

Your model classifies Survived into two categories.

[Change type](#)

Quick build

Standard build

Choose accuracy over speed. Building usually takes between 2–4 hours.

Quick build

Choose speed over accuracy. Building usually takes 2–15 minutes. You can't share quick build models.



train(2).csv



Search columns



<input type="checkbox"/> Column name ↓	Data type	Missing ⓘ	Mismatched ⓘ	Unique ⓘ	Mean / Mode	Correlation to target
<input checked="" type="checkbox"/> Ticket	Numeric	0.00% (0)	0.00% (0)	681	1,601	N/A
<input checked="" type="checkbox"/> Survived	Binary	0.00% (0)	0.00% (0)	2	0	--
<input checked="" type="checkbox"/> SibSp	Numeric	0.00% (0)	0.00% (0)	7	0	-0.035



Titanic 20220218

V1

Draft ⏺

+ Add version

Share

⋮



Select

Build

Analyze

Predict



Model overview

Your model is being created. Quick build usually takes 2–15 minutes. You can now leave this view.

Expected build time
2–15 minutes

Build type
Quick build

Detailed progress
Generating column impact



d-iceiqcsfx9pm.studio.us-east-1.sagemaker.aws/canvas/default/models

Paused

Models

Search models

+ New model

Grid List

Filter by: Ready

Last viewed

In building

Titanic 20220218

Score --

Dataset [train\(2\).csv](#)

Target Survived



Grid List

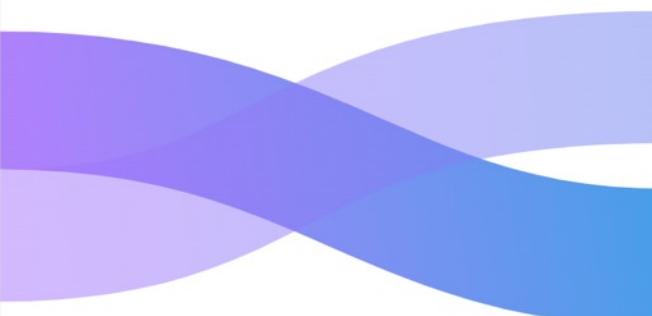


Filter by: Ready

Last viewed

Ready

Titanic 20220218



Score 82.682%

Dataset [train\(2\).csv](#)

Target Survived

Problem type 2 category prediction



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d-iceiqcsfx9pm.studio.us-east-1.sagemaker.aws/canvas/default/models/Titanic%2020220218

V1 • Ready Add version Share ...

Titanic 20220218

Select Build Analyze Predict

Model status

82.682%

The model predicts the correct Survived 82.682% of the time. ⓘ

Predict Share with SageMaker Studio

Overview Scoring

Column impact ⓘ

Search columns...

Rank	Column	Impact (%)
1	Sex	37.045%
2	Pclass	31.193%
3	Ticket	10.361%
4	Age	9.907%

Impact of Sex on prediction of Survived

Impact on prediction

male female

0 ▾ 1.35...
-0.30...
-1.15...
-2.00...

?

Do

d-iceiqcsfx9pm.studio.us-east-1.sagemaker.aws/canvas/default/models/Titanic%2020220218

V1 • Ready Add version Share ...

Titanic 20220218

Select Build Analyze Predict

Predict target values

Batch prediction Single prediction

Generates predictions for an entire dataset.

Select a dataset to generate predictions

Select dataset

Predictions

Search predictions

Dataset Rows Created Status

?

Do

A red arrow points to the "Batch prediction" button in the "Predict target values" section.



Select

Build

Analyze

Predict

Predict target values

Batch prediction

Single prediction

Modify values to predict Survived in real time.

 Filter columns

Column	Feature importance	Value	Survived Prediction	Copy
SibSp	<div style="width: 26.873%;">26.873%</div>	<input type="text" value="0"/>	No	
Pclass	<div style="width: 26.685%;">26.685%</div>	<input type="text" value="3"/>		
Parch	<div style="width: 9.565%;">9.565%</div>	<input type="text" value="0"/>	Average prediction	
Sex	<div style="width: 1.757%;">1.757%</div>	<input style="width: 100px; height: 20px; border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;" type="text" value="male"/> <div style="border: 1px solid #ccc; width: 100%; height: 10px; background-color: #f0f0f0;"></div>	No 52.951% (i)	
Ticket	<div style="width: 1.727%;">1.727%</div>	<input type="text" value="1601"/>		
Age	<div style="width: 1.64%;">1.64%</div>	<input type="text" value="24"/>	Yes 47.049% (i)	

Close

Download



Select

Build

Analyze

Predict

Predict target values

Batch prediction

Single prediction

Modify values to predict Survived in real time.

 Filter columns

Column	Feature importance	Value
SibSp	26.873%	0
Pclass	26.685%	3
Parch	9.565%	0
Sex	1.757%	female
Ticket	1.727%	1601
Age	1.64%	24

Survived Prediction

Copy

You made 1 change to your sections. Update for a new prediction and feature importance metrics.

Update

No

Average prediction

Close

Download



Select

Build

Analyze

Predict



Predict target values

Batch prediction

Single prediction

Modify values to predict Survived in real time.

 Filter columns

Column	Feature importance	Value	Survived Prediction	Copy
SibSp	<div style="width: 13.492%;">13.492%</div>	<input type="text" value="0"/>	Yes	
Pclass	<div style="width: 16.618%;">16.618%</div>	<input type="text" value="3"/>		
Parch	<div style="width: 7.54%;">7.54%</div>	<input type="text" value="0"/>		
Sex	<div style="width: 1.377%;">1.377%</div>	<input style="background-color: #f0f0f0; border: 1px solid #ccc; padding: 2px; width: 100%; height: 20px; margin-bottom: 5px;" type="text" value="female"/> <div style="border: 1px solid #ccc; width: 100%; height: 10px; background-color: #f0f0f0;"></div>		
Ticket	<div style="width: 2.218%;">2.218%</div>	<input type="text" value="1601"/>	No 45.851% (i)	
Age	<div style="width: 4.548%;">4.548%</div>	<input type="text" value="24"/>	Yes 54.149% (i)	

Close

Download



Select

Build

Analyze

Predict

Predict target values

Batch prediction

Single prediction

Modify values to predict Survived in real time.

 Filter columns

Column	Feature importance	Value	⟳
SibSp	13.492%	0	⟳
Pclass	16.618%	3	⟳
Parch	7.54%	0	⟳
Sex	1.377%	female	⟳
Ticket	2.218%	1601	⟳
Age	4.548%	70	⟳

Survived Prediction

Copy

You made 1 change to your sections. Update for a new prediction and feature importance metrics.

Update

Yes

- New prediction
- Average prediction

Close

Download



Select

Build

Analyze

Predict

Predict target values

Batch prediction

Single prediction

Modify values to predict Survived in real time.

 Filter columns

Column	Feature importance	Value
SibSp	<div style="width: 18.378%;"><div style="width: 100%; background-color: #58357E;"></div></div> 18.378%	<input type="text" value="0"/>
Pclass	<div style="width: 27.56%;"><div style="width: 100%; background-color: #58357E;"></div></div> 27.56%	<input type="text" value="3"/>
Parch	<div style="width: 5.852%;"><div style="width: 100%; background-color: #58357E;"></div></div> 5.852%	<input type="text" value="0"/>
Sex	<div style="width: 2.84%;"><div style="width: 100%; background-color: #58357E;"></div></div> 2.84%	<input type="text" value="female"/> ▼
Ticket	<div style="width: 1.977%;"><div style="width: 100%; background-color: #58357E;"></div></div> 1.977%	<input type="text" value="1601"/>
Age	<div style="width: 4.016%;"><div style="width: 100%; background-color: #58357E;"></div></div> 4.016%	<input type="text" value="70"/>

Survived Prediction

Copy

No

█ New prediction
█ Average prediction

No 75.827% ⓘ

█ 100%

Yes 24.173% ⓘ

Close

Download

Thank you!

Michael Lin

linmicht@amazon.com

