

Lab 1 SageMaker Canvas



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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

#

[Accept Terms & Login](#)



Terms & Conditions

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2. You will not: (a) process or run any operation on any data other than test data sets or lab-approved materials by AWS, and (b) copy, import, export or otherwise create derivative works of materials provided by AWS, including but not limited to, data sets.
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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

#

✓ Accept Terms & Login

A screenshot of a web browser window titled "Event Engine - Team Dashboard". The URL in the address bar is "dashboard.eventengine.run/login". The browser interface includes standard controls like back, forward, and search, along with a "Paused" indicator in the top right corner.

The main content is a login form titled "Sign in with" with the sub-instruction "Pick the sign-in method you prefer". It features three options:

- Email One-Time Password (OTP)**: A text input field for entering an email address to receive a one-time password.
- Login with Amazon**: A button for logging in using an Amazon.com retail account.
- Amazon Employee**: A button for logging in using an Amazon Corporate account, specifically for employees.

Below the "Amazon Employee" option is a note: "(For Amazon Employees Only) Login with your Amazon Corporate account". At the bottom of the form is a link: "Get help signing in".

One-time email passcode +

us-east-1.signin.aws.training/otp/input/response?state=ZXIKMWMMyVnlVRzl2YkVsa0lqb2lkWE10WldGemRDMHhYMHRqV0Vkt2RHeFNXU0lzSW5CeWIzWn... Paused

aws training and certification

One-time email passcode

Send a passcode to the email below.

Email

[Back](#) [Send passcode](#)

[Get help signing in](#)

Verify one-time email passcode

us-east-1.signin.aws.training/otp/challenge?state=ZXIKMWMMyVnlVRzl2YkVsa0lqb2lkWE10WIdGemRDMHhYMHRqV0Vkt2RHeFNXU0lzSW5CeWIzWnBaR1...

AWS training and certification

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](#)



One-time email passcode

We sent a passcode to michael_tw_lin@msn.com. You should receive it within 5 minutes.

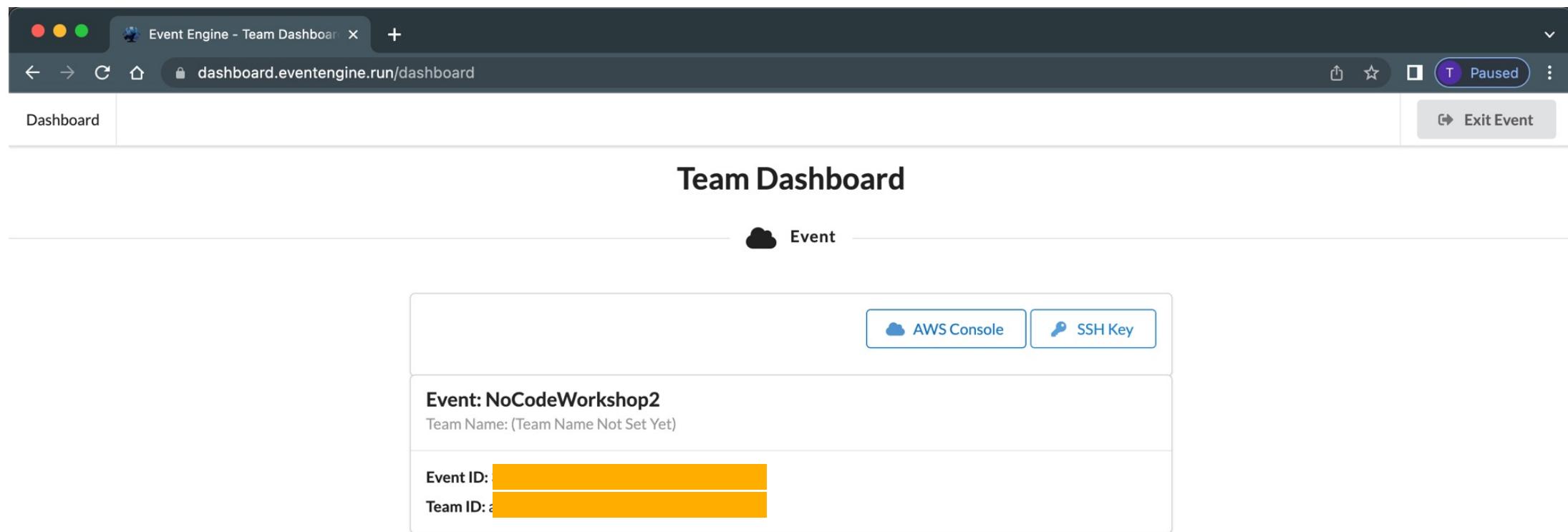
Passcode (9-digit) [Resend passcode](#)

[Back](#)

[Sign in](#)

[Get help signing in](#)

✓ Signin successful. Redirecting...



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



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

Maybe later

Switch to the new Console Home



New AWS Console Home

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

[Learn 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](#)



Connect an IoT device

With AWS IoT

5 minutes



Start migrating to AWS

With AWS MGN

1-2 minutes

Explore AWS

Free AWS Training

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

AWS Services Search for services, features, blogs, docs, and more [Option+S] N. Virginia aws_demo

EC2 VPC Support

Amazon SageMaker

MACHINE LEARNING

Getting started

Control panel

Studio

Studio Lab

Canvas

RStudio

SageMaker dashboard

Images

Lifecycle configurations

Search

▶ Ground Truth

▶ Notebook

▶ Processing

▶ Training

▶ Inference

▶ Edge Manager

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

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

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

New to SageMaker?

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

[Get Started](#)

Documentation

Getting started

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Amazon SageMaker



Amazon SageMaker > Getting Started

Getting Started

Getting started

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RStudio

SageMaker dashboard

Images

Lifecycle configurations

Search

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► Inference

► Edge Manager

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



Learn by doing

Automatic model creation (10 min)

End-to-end workflow (60 min)

Create a machine learning model automatically with
SageMaker Autopilot

About this tutorial

Time: 10 minutes

Feedback

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Amazon SageMaker > Setup SageMaker Domain



Setup SageMaker Domain

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

Quick setup (1 min)

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
- SageMaker Canvas
- IAM Authentication

Perfect for single user domains and first time users looking to get started with SageMaker.

Standard setup (10 min)

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
- SageMaker Canvas, and Amazon services integrations
- IAM, or IAM Identity Center (successor to AWS SSO)

Better for admins with large user groups, but you can always update your account configuration settings later if you want to do a quick setup now.

User profile

Name

default-1665226431535

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.

AmazonSageMaker-ExecutionRole-20210715T135070



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

Perfect for single user domains and first time users looking to get started with SageMaker.

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- SageMaker Studio, and RStudio integration
- SageMaker Studio Projects, and Jumpstart configurable
- SageMaker Canvas, and Amazon services integrations
- IAM, or IAM Identity Center (successor to AWS SSO)

Better for admins with large user groups, but you can always update your account configuration settings later if you want to do a quick setup now.

User profile

Name

sagemakeruser-20221007



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.

AmazonSageMaker-ExecutionRole-20210715T135070



Enable SageMaker Canvas permissions [Info](#)

Enable SageMaker Canvas permissions to attach the [AmazonSageMakerCanvasFullAccess](#) policy to the default execution role. This also enables time series forecasting in Canvas and creates the `AmazonSagemakerCanvasForecastRole` and attaches the [AmazonSagemakerCanvasForecastRolePolicy](#) policy to the role.

Cancel

Submit

AWS Services Search for services, features, blogs, docs, and more [Option+S] N. Virginia aws_demo

EC2 VPC Support

Quick setup (1 min)

Create a new role 

Enter a custom IAM role ARN

Use existing role

- AmazonSageMaker-ExecutionRole-20210715T135070
- AmazonSageMaker-ExecutionRole-20210718T155344
- AmazonSageMaker-ExecutionRole-20210718T164560
- AmazonSageMaker-ExecutionRole-20210728T230322
- AmazonSageMaker-ExecutionRole-20210731T225019
- AmazonSageMaker-ExecutionRole-20211230T222685
- AmazonSageMaker-ExecutionRole-20211230T222894
- AmazonSageMaker-ExecutionRole-20220114T104742
- AmazonSageMaker-ExecutionRole-20220114T110158
- AmazonSageMaker-ExecutionRole-20220122T233384
- AmazonSageMaker-ExecutionRole-20220130T214777
- AmazonSageMaker-ExecutionRole-20220130T215969
- AmazonSageMaker-ExecutionRole-20220130T220189

Please choose an execution role 

 Required

Enable SageMaker Canvas permissions [Info](#)

Enable SageMaker Canvas permissions to attach the [AmazonSageMakerCanvasFullAccess](#) policy to the default execution role. This also enables time series forecasting in Canvas and creates the AmazonSagemakerCanvasForecastRole and attaches the [AmazonSagemakerCanvasForecastRolePolicy](#) policy to the role.

Standard setup (10 min)

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
- SageMaker Canvas, and Amazon services integrations
- IAM, or IAM Identity Center (successor to AWS SSO)

Better for admins with large user groups, but you can always update your account configuration settings later if you want to do a quick setup now.

Setup SageMaker Domain

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

Quick setup (1 min)

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

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

Perfect for single user domains and finding

Standard setup (10 min)

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



Create an IAM role

Passing an IAM role gives Amazon SageMaker permission to perform actions in other AWS services on your behalf. Creating a role here will grant permissions described by the [AmazonSageMakerFullAccess](#) IAM policy to the role you create.

The IAM role you create will provide access to:

S3 buckets you specify - optional

Any S3 bucket

Allow users that have access to your notebook instance access to any bucket and its contents in your account.

Specific S3 buckets

Example: `bucket-name-1, bucke`

Comma delimited. ARNs, "*" and "/" are not supported.

None

Any S3 bucket with "sagemaker" in the name

Any S3 object with "sagemaker" in the name

Any S3 object with the tag "sagemaker" and value "true"

[See Object tagging](#)

S3 bucket with a Bucket Policy allowing access to SageMaker

[See S3 bucket policies](#)

Cancel

Create role

User profile

Name

sagemakeruser-20221007

The name can have up to 63 characters.

Default execution role

SageMaker Domain requires permission to assume the execution role. If you don't have a range of capabilities, you may attach the [AmazonSageMakerFullAccess](#) policy, we can create one for you.

[Create a new role](#)

Required

Enable SageMaker Canvas permissions

[Info](#)

Enable SageMaker Canvas permissions to attach the [AmazonSageMakerCanvasFullAccess](#) policy to the default execution role. This also enables time series forecasting in Canvas and creates the [AmazonSageMakerCanvasForecastRole](#) and attaches the [AmazonSageMakerCanvasForecastRolePolicy](#) policy to the role.

Setup SageMaker Domain

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

Quick setup (1 min)

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

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

Perfect for single user domains and fine-grained control.

User profile

Name

sagemakeruser-20221007

The name can have up to 63 characters.

Default execution role

SageMaker Domain requires permission to perform actions on your behalf. You can attach a pre-defined range of capabilities, you may attach to the domain directly or we can create one for you.

[Create a new role](#)

! Required

Enable SageMaker Canvas permissions Info

Enable SageMaker Canvas permissions to attach the [AmazonSageMakerCanvasFullAccess](#) policy to the default execution role. This also enables time series forecasting in Canvas and creates the [AmazonSageMakerCanvasForecastRole](#) and attaches the [AmazonSageMakerCanvasForecastRolePolicy](#) policy to the role.

Standard setup (10 min)

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

Create an IAM role



Passing an IAM role gives Amazon SageMaker permission to perform actions in other AWS services on your behalf. Creating a role here will grant permissions described by the [AmazonSageMakerFullAccess](#) IAM policy to the role you create.

The IAM role you create will provide access to:

S3 buckets you specify optional

Any S3 bucket

Allow users that have access to your notebook instance access to any bucket and its contents in your account.

Specific S3 buckets

Example: `bucket-name-1, bucke`

Comma delimited. ARNs, "*" and "/" are not supported.

None

Any S3 bucket with "sagemaker" in the name

Any S3 object with "sagemaker" in the name

Any S3 object with the tag "sagemaker" and value "true"

[See Object tagging](#)

S3 bucket with a Bucket Policy allowing access to SageMaker

[See S3 bucket policies](#)

[Cancel](#)

[Create role](#)

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EC2 VPC Support

IAM Authentication
Perfect for single user domains and first time users looking to get started with SageMaker.

IAM, or IAM Identity Center (successor to AWS SSO)
Better for admins with large user groups, but you can always update your account configuration settings later if you want to do a quick setup now.

User profile

Name: sagemakeruser-20221007

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

Default execution role: AmazonSageMaker-ExecutionRole-20221008T185553

Success! You created an IAM role. AmazonSageMaker-ExecutionRole-20221008T185553

Enable SageMaker Canvas permissions [Info](#)

Enable SageMaker Canvas permissions to attach the [AmazonSageMakerCanvasFullAccess](#) policy to the default execution role. This also enables time series forecasting in Canvas and creates the AmazonSagemakerCanvasForecastRole and attaches the [AmazonSagemakerCanvasForecastRolePolicy](#) policy to the role.

Cancel **Submit**



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EC2 VPC Support

Amazon SageMaker

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- Search
- ▶ **Ground Truth**
- ▶ **Notebook**
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- ▶ **Inference**
- ▶ **Edge Manager**

Preparing SageMaker Domain

We are configuring the quickstart user [sagemakeruser-20221007] and resources needed by the domain. This is a one-time configuration and may take a few minutes.

Jupyter Lab 3 will be the officially supported version in SageMaker Studio, while Jupyter Lab 1 will only receive security fixes from August 31, 2022. [Learn more](#)

Amazon SageMaker > Control Panel

Control Panel

Configure and manage SageMaker domain, users, and apps.

Users

Add user

Search users

Name	Modified on	Created on
No users		

To add a user, choose Add user and enter a user name.

Apps

Configure apps to manage your ML workflow using SageMaker.

Studio Studio Lab Canvas RStudio

Domain

Status ⓘ Pending

Authentication method ⓘ AWS Identity and Access Management (IAM)

Domain ID ⓘ d-ynvbid9dkcth

Execution role ⓘ arn:aws:iam::11735445051:

Feedback Looking for language selection? Find it in the new Unified Settings [\[\]](#)

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EC2 VPC Support

Amazon SageMaker

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

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- ▶ Edge Manager

Amazon SageMaker > Control Panel

Control Panel

Configure and manage SageMaker domain, users, and apps.

Users

Name	Modified on	Created on	Action
sagemakeruser-20221007	Oct 08, 2022 10:59 UTC	Oct 08, 2022 10:59 UTC	Launch app

Apps

Configure apps to manage your ML workflow using SageMaker.

Studio Studio Lab Canvas RStudio

Domain

Status Ready

Authentication method AWS Identity and Access Management (IAM)

Domain ID d-ynvbid9dkcth

Execution role arn:aws:iam::11735445051:

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Amazon SageMaker

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[Learn more](#)

Amazon SageMaker > Control Panel

Control Panel

Configure and manage SageMaker domain, users, and apps.

Users

Add user

Search users

< 1 >

⚙

Name

Modified on

Created on

sagemakeruser-20221007

Oct 08, 2022
10:59 UTC

Oct 08, 2022
10:59 UTC

Launch app

Studio

Canvas

Apps

Configure 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.

Open Link in New Tab

Open Link in New Window

Open Link in Incognito Window

Save Link As...

Copy Link Address

Inspect

11735445051:
role/service-
role/AmazonSa
geMaker-
ExecutionRole



Amazon SageMaker Canvas

Creating application... 

Amazon SageMaker



Canvas



Models



Datasets



Help



Log out



Welcome to Canvas

Canvas helps you to easily build and use machine learning models in a few simple steps. Learn how to use Canvas with **quick 1 minute tutorials below**.

[Get started with Canvas](#)

...Or learn more about each step of building a model in Canvas:

[Learn how to import datasets](#)

[Learn how to build a model](#)

[Learn how to analyze a model](#)

[Learn how to use a model to predict](#)

[Skip for now](#)





Models

Datasets

Dataset

Join data

Import

Datasets

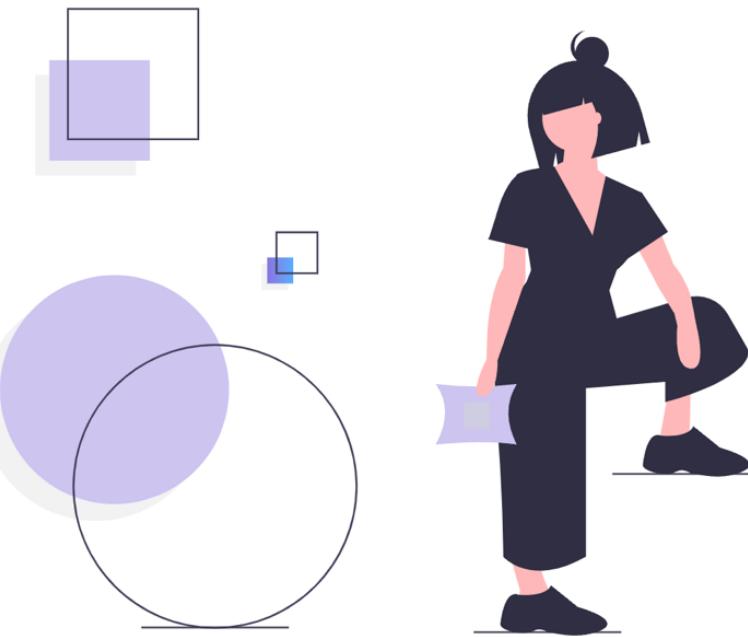
Name	Source	Columns	Rows	Cells	Created	Status
<input type="checkbox"/> canvas-sample-housing.csv	S3	10	1,000	10,000	10/08/2022 7:13 PM	Ready
<input type="checkbox"/> canvas-sample-shipping-logs.csv	S3	12	1,000	12,000	10/08/2022 7:13 PM	Ready
<input type="checkbox"/> canvas-sample-diabetic-readmission.csv	S3	16	1,000	16,000	10/08/2022 7:13 PM	Ready
<input type="checkbox"/> canvas-sample-sales-forecasting.csv	S3	5	1,000	5,000	10/08/2022 7:13 PM	Ready
<input type="checkbox"/> canvas-sample-product-descriptions.csv	S3	5	120	600	10/08/2022 7:13 PM	Ready
<input type="checkbox"/> canvas-sample-loans-part-2.csv	S3	5	1,000	5,000	10/08/2022 7:13 PM	Ready
<input type="checkbox"/> canvas-sample-loans-part-1.csv	S3	19	1,000	19,000	10/08/2022 7:13 PM	Ready
<input type="checkbox"/> canvas-sample-maintenance.csv	S3	9	1,000	9,000	10/08/2022 7:13 PM	Ready

You can restart the tutorials
from the help menu.

Help

Log out

Models

 Search models[+ New model](#)

You haven't created any models yet.

Create a new model.

[+ New model](#)



Models

Search models

+ 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

titanic-quickmodel-20221009

V1 • Draft

+ Add version

Share



Select

Build

Analyze

Predict

Select dataset

Join Import

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

All Joined

Name	Source	Columns	Rows	Cells	Created	Status
canvas-sample-loans-part-2.csv	S3	5	1,000	5,000	10/05/2022 11:22 PM	Ready
canvas-sample-shipping-logs.csv	S3	12	1,000	12,000	10/05/2022 11:22 PM	Ready
canvas-sample-housing.csv	S3	10	1,000	10,000	10/05/2022 11:22 PM	Ready
canvas-sample-maintenance.csv	S3	9	1,000	9,000	10/05/2022 11:22 PM	Ready
canvas-sample-product-descriptions.csv	S3	5	120	600	10/05/2022 11:22 PM	Ready
canvas-sample-loans-part-1.csv	S3	19	1,000	19,000	10/05/2022 11:22 PM	Ready

Select dataset



Type here to search



11:46 AM
10/9/2022

Import

X

Upload

S3

Add Redshift or Snowflake

Upload files to import

Drag a CSV file here

or

Select files from your computer



Cancel

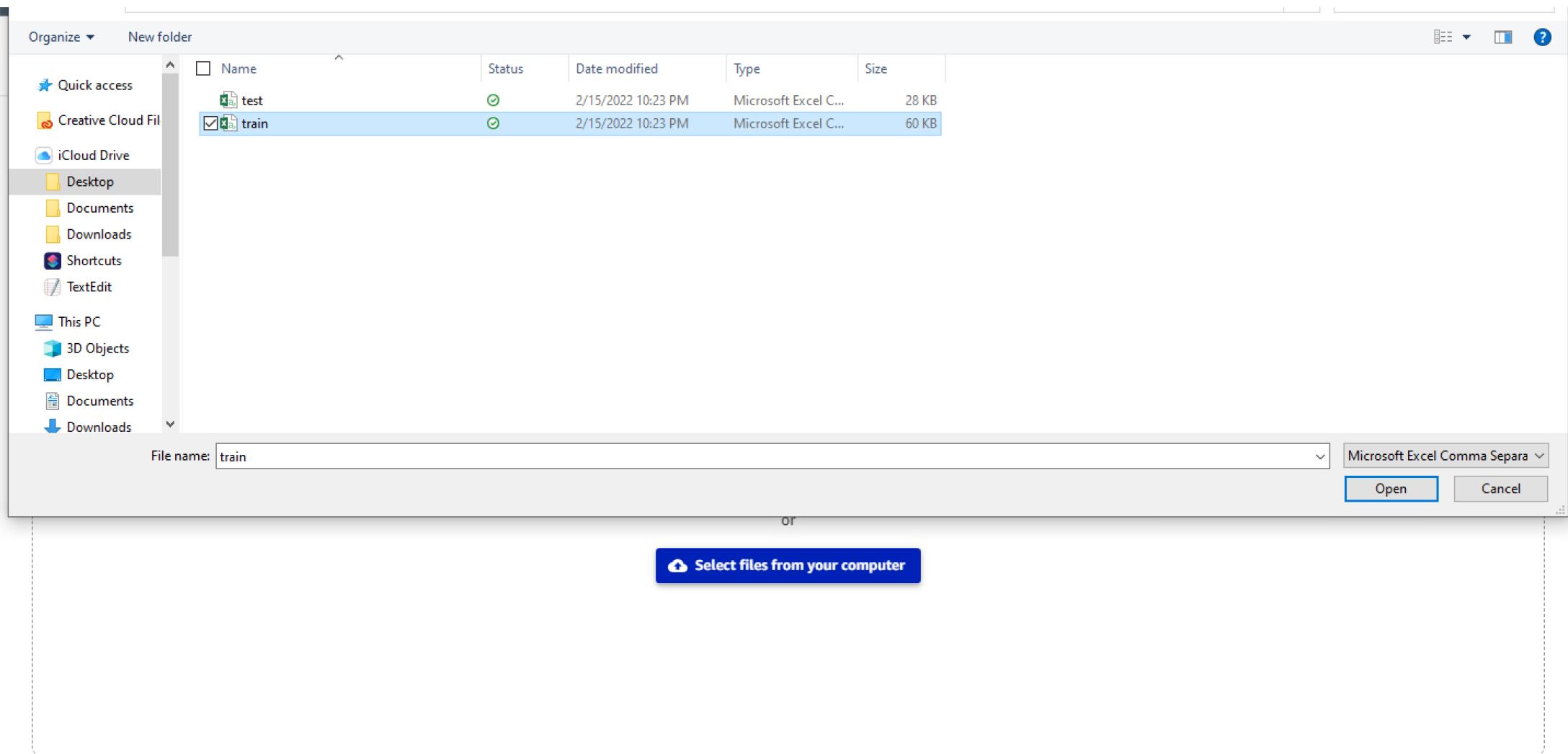
Import data



Type here to search



11:46 AM
10/9/2022



Cancel

Import data



Type here to search



11:47 AM
10/9/2022

Import



Upload

S3

Add Redshift or Snowflake

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



Type here to search



11:47 AM 10/9/2022 ENG

Import



Upload

S3

Add Redshift or Snowflake

Upload files to import

Import preview Previewing first 100 rows

[Close preview](#)

[Import data](#)

train.csv ▾

Use first row as header [\(i\)](#)

Delete

PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch
1	0	3	Braund, Mr. Owen Harris	male	22	1	0
2	1	1	Cumings, Mrs. John Brad...l...	female	38	1	0
3	1	3	Heikkinen, Miss. Laina	female	26	0	0
4	1	1	Futrelle, Mrs. Jacques Hea...	female	35	1	0
5	0	3	Allen, Mr. William Henry	male	35	0	0
6	0	3	Moran, Mr. James	male		0	0



Type here to search



11:47 AM
10/9/2022

titanic-quickmodel-20221009

V1 · Draft

+ Add version

Share



Select

Build

Analyze

Predict

Select dataset

Join Import

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

All Joined

Name	Source	Columns	Rows	Cells	Created	Status
train.csv	Local	12	891	10,692	10/09/2022 11:47 AM	Ready
canvas-sample-sales-forecasting.csv	S3	5	1,000	5,000	10/05/2022 11:22 PM	Ready
canvas-sample-diabetic-readmission.csv	S3	16	1,000	16,000	10/05/2022 11:22 PM	Ready
canvas-sample-loans-part-2.csv	S3	5	1,000	5,000	10/05/2022 11:22 PM	Ready
canvas-sample-shipping-logs.csv	S3	12	1,000	12,000	10/05/2022 11:22 PM	Ready
canvas-sample-housing.csv	S3	10	1,000	10,000	10/05/2022 11:22 PM	Ready

Select dataset



Type here to search



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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.csv

Full dataset: 891 rows



Data visualizer



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
Pclass	Numeric	0.00% (0)	0.00% (0)	3	3
PassengerId	Numeric	0.00% (0)	0.00% (0)	891	1

Total columns: 12

Total rows: 891

Total cells: 10,692

 Show dropped columns

Type here to search

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Select

Build

Analyze

Predict

Validate your data

It might take several minutes, depending on the dataset size.

Validate data

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

Preview model

train.csv

Full dataset: 891 rows



Data visualizer



Column name ↓

Data type

Missing ⓘ

Mismatched ⓘ

Unique ⓘ

Mean / Mode

Correlation to target ⓘ

Ticket

Numeric

0.00% (0)

0.00% (0)

681

1,601

N/A

Survived

Target

Binary

0.00% (0)

0.00% (0)

2

0

--

SibSp

Numeric

0.00% (0)

0.00% (0)

7

0

-0.035

Sex

Binary

0.00% (0)

0.00% (0)

2

male

-0.543

Total columns: 12

Total rows: 891

Total cells: 10,692

Show dropped columns



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Select

Build

Analyze

Predict

Validate your data

It might take several minutes, depending on the dataset size.

Validate data

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

[Preview model](#)

train.csv

Full dataset: 891 rows

≡ | ⚡ | 🔍 | ⚡ | Extract | Remove rows by | Replace | Functions | [Data visualizer](#) | [Full dataset view](#)

Column name ↓	Data type	Missing ⓘ	Mismatched ⓘ	Unique ⓘ	Mean / Mode	Correlation to target ⓘ	Full dataset view
Ticket	Numeric	0.00% (0)	0.00% (0)	681	1,601	N/A	
Survived	Binary	0.00% (0)	0.00% (0)	2	0	--	
SibSp	Numeric	0.00% (0)	0.00% (0)	7	0	-0.035	
Sex	Binary	0.00% (0)	0.00% (0)	2	male	-0.543	

Total columns: 12 Total rows: 891 Total cells: 10,692

Show dropped columns



Type here to search



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Validate your data

It might take several minutes, depending on the dataset size.

Validate data

Target column
Survived

2 category prediction

Change type

Quick build

Preview model

train.csv

Full dataset: 891 rows



Remove rows by



Functions

Data visualizer



Column name	Data type	Missing	Mismatched	Unique	Mean / Mode	Correlation to target
Ticket	Numeric	0.00% (0)	0.00% (0)	681	1,601	N/A
Survived	Binary	0.00% (0)	0.00% (0)	2	0	--
SibSp	Numeric	0.00% (0)	0.00% (0)	7	0	-0.035
Sex	Binary	0.00% (0)	0.00% (0)	2	male	-0.543
Pclass	Numeric	0.00% (0)	0.00% (0)	3	3	-0.338
PassengerId	Numeric	0.00% (0)	0.00% (0)	891	1	-0.005
Parch	Numeric	0.00% (0)	0.00% (0)	7	0	0.082
Name	Text	0.00% (0)	0.00% (0)	891	Abbing, Mr. Anthony	N/A
Fare	Numeric	0.00% (0)	0.00% (0)	248	8.05	0.257
Embarked	Categorical	0.22% (2)	0.00% (0)	3	S	N/A
Cabin	Text	77.10% (687)	0.00% (0)	147	B96 B98	N/A
Age	Numeric	19.87% (177)	0.00% (0)	71	24	-0.077

Total columns: 12

Total rows: 891

Total cells: 10,692

Show dropped columns



Type here to search



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Validate your data

It might take several minutes, depending on the dataset size.

Validate data

Target column
Survived

2 category prediction

Change type

Quick build

Preview model

train.csv

Full dataset: 891 rows



Extract

Remove rows by

Replace

Functions

Data visualizer



Ticket	Survived	SibSp	Sex	Pclass	PassengerId	Parch
N/A	2 Categories	0.00 3.94	2 Categories	1.00 2.90	1.00 846.50	0.00
A/5 21171	0	1	male	3	1	0
PC 17599	1	1	female	1	2	0
STON/O2. 3101282	1	0	female	3	3	0
113803	1	1	female	1	4	0
373450	0	0	male	3	5	0
330877	0	0	male	3	6	0
17463	0	0	male	1	7	0
349909	0	3	male	3	8	1
347742	1	0	female	3	9	2

Total columns: 12

Total rows: 891

Total cells: 10,692

Previewing first 100 rows

Show dropped columns



Type here to search



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Validate your data

It might take several minutes, depending on the dataset size.

Validate data

Target column
Survived

2 category prediction

Change type

Quick build

Preview model

train.csv

Full dataset: 891 rows



Parch	Name	Fare	Embarked	Cabin	Age
846.50	891 Values	0.00 159.94	3 Categories	147 Values	0.00 76.00
0	Braund, Mr. Owen Harris	7.25	S		22
0	Cumings, Mrs. John Bradley (Flo...	71.2833	C	C85	38
0	Heikkinen, Miss. Laina	7.925	S		26
0	Futrelle, Mrs. Jacques Heath (Lil...	53.1	S	C123	35
0	Allen, Mr. William Henry	8.05	S		35
0	Moran, Mr. James	8.4583	Q		
0	McCarthy, Mr. Timothy J	51.8625	S	E46	54
1	Palsson, Master. Gosta Leonard	21.075	S		2
2	Johnson, Mrs. Oscar W (Elisabet...	11.1333	S		27

Total columns: 12

Total rows: 891

Total cells: 10,692

Previewing first 100 rows

Show dropped columns



Type here to search



Validate your data

It might take several minutes, depending on the dataset size.

Validate data

Target column
Survived

2 category prediction

Change type

Quick build

Preview model

train.csv

Full dataset: 891 rows



Extract
Remove rows by

Replace

Functions

Data visualizer



Column name	Data type	Missing	Mismatched	Unique	Mean / Mode	Correlation to target
Ticket	Numeric	0.00% (0)	0.00% (0)	681	1,601	N/A
Survived	Binary	0.00% (0)	0.00% (0)	2	0	--
SibSp	Numeric	0.00% (0)	0.00% (0)	7	0	-0.035
Sex	Binary	0.00% (0)	0.00% (0)	2	male	-0.543
Pclass	Numeric	0.00% (0)	0.00% (0)	3	3	-0.338
PassengerId	Numeric	0.00% (0)	0.00% (0)	891	1	-0.005
Parch	Numeric	0.00% (0)	0.00% (0)	7	0	0.082
Name	Text	0.00% (0)	0.00% (0)	891	Abbing, Mr. Anthony	N/A
Fare	Numeric	0.00% (0)	0.00% (0)	248	8.05	0.257
Embarked	Categorical	0.22% (2)	0.00% (0)	3	S	N/A
Cabin	Text	77.10% (687)	0.00% (0)	147	B96 B98	N/A
Age	Numeric	19.87% (177)	0.00% (0)	71	24	-0.077

Total columns: 12

Total rows: 891

Total cells: 10,692

Show dropped columns



Type here to search



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ENG
10/9/2022

Validate your data

It might take several minutes, depending on the dataset size.

Validate data

Target column
Survived

2 category prediction

Change type

Quick build

Preview model

train.csv

Full dataset: 891 rows



<input type="checkbox"/> Column name ↓	Data type	Missing <small>i</small>	Mismatched <small>i</small>	Unique <small>i</small>	Mean / Mode
<input type="checkbox"/> Ticket	Numeric	0.00% (0)	0.00% (0)	681	1,601
<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
<input checked="" type="checkbox"/> Sex	Binary	0.00% (0)	0.00% (0)	2	male
<input checked="" type="checkbox"/> Pclass	Numeric	0.00% (0)	0.00% (0)	3	3
<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. Antho
<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)	71	24

Total columns: 8 Total rows: 891 Total cells: 7,128

Show dropped columns

Model recipe

- 1 Drop column Ticket
- 2 Drop column PassengerId
- 3 Drop column Name
- 4 Drop column Cabin

X

X

X

X

X



Type here to search



11:51 AM
10/9/2022

Validate your data

It might take several minutes, depending on the dataset size.

Validate data

Target column
Survived

2 category prediction

Change type

Quick build

Preview model

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.csv

Full dataset: 891 rows



4



Remove rows by



Replace



Column name ↓

Data type

Missing ⓘ

Mismatched ⓘ

Ticket

Numeric

0.00% (0)

0.00% (0)

681

1,601

Survived

Target

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

Pclass

Numeric

0.00% (0)

0.00% (0)

3

3

PassengerId

Numeric

0.00% (0)

0.00% (0)

891

1

Parch

Numeric

0.00% (0)

0.00% (0)

7

0

Name

Text

0.00% (0)

0.00% (0)

891

Abbing, Mr. Antho

Fare

Numeric

0.00% (0)

0.00% (0)

248

8.05

Embarked

Categorical

0.22% (2)

0.00% (0)

3

S

Cabin

Text

77.10% (687)

0.00% (0)

147

B96 B98

Age

Numeric

19.87% (177)

0.00% (0)

71

24

Total columns: 8

Total rows: 891

Total cells: 7,128

Show dropped columns



Type here to search



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10/9/2022

Validate your data

It might take several minutes, depending on the dataset size.

Validate data

Target column
Survived

2 category prediction

Change type

Quick build

Preview model



train.csv

Full dataset: 891 rows

Extract Remove rows by Replace Functions Data visualizer

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
Pclass	Numeric	0.00% (0)	0.00% (0)	3	3
PassengerId	Numeric	0.00% (0)	0.00% (0)	891	1
Parch	Numeric	0.00% (0)	0.00% (0)	7	0
Name	Text	0.00% (0)	0.00% (0)	891	Abbing, Mr. Antho
Fare	Numeric	0.00% (0)	0.00% (0)	248	8.05
Embarked	Categorical	0.22% (2)	0.00% (0)	3	S
Cabin	Text	77.10% (687)	0.00% (0)	147	B96 B98
Age	Numeric	19.87% (177)	0.00% (0)	71	24

Model recipe

- 1 Drop column Ticket
- 2 Drop column PassengerId
- 3 Drop column Name
- 4 Drop column Cabin

Total columns: 8 Total rows: 891 Total cells: 7,128

Show dropped columns



Type here to search



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Validate your data

It might take several minutes, depending on the dataset size.

Validate data

Target column
Survived

2 category prediction

Change type

Quick build

Preview model

train.csv
Full dataset: 891 rows



Extract
Remove rows by



Replace
Functions

Data visualizer



Model recipe



1 Drop column Ticket



2 Drop column PassengerId



3 Drop column Name



4 Drop column Cabin



Validate your data

Before training, please check for any issues with your dataset to avoid potential failures while building a model.

Checking for issues might take up several minutes, depending on the dataset size.

Start quick build

Validate your data



Total columns: 8

Total rows: 891

Total cells: 7,128

Show dropped columns



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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



train.csv

Total columns: 8

Total rows: 891

Total cells: 7,128

Survived

2 category prediction



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Select Build Analyze Predict

Model status

84.916%

The model predicts the correct Survived 84.916% of the time. ⓘ

Predict

Share with SageMaker Studio

Overview

Scoring

Column impact ⓘ

Search columns...

1 Sex

37.906%

2 Pclass

27.26%

3 Fare

14.199%

4 Age

12.044%

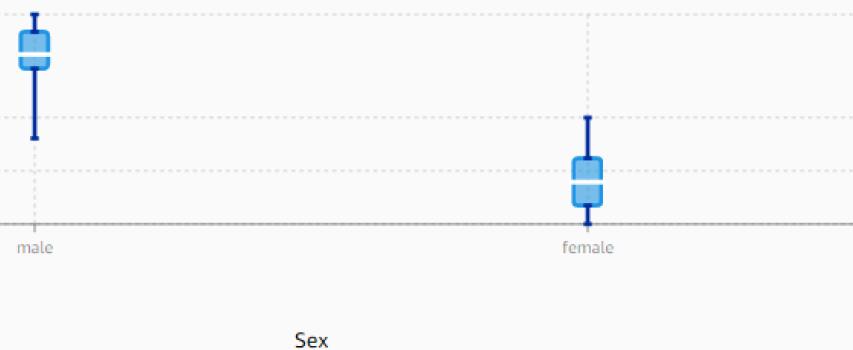
5 SibSp

Impact on prediction

0 ▾ 1.76...

0.20...
-0.59...
1 -1.39...

Impact of Sex on prediction of Survived



train.csv

Total columns: 8

Total rows: 891

Total cells: 7,128

Survived

2 category prediction

Predict



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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



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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
Sex	44.631%	male	No	
Pclass	33.857%	3	Average prediction	
Fare	15.219%	8.05	No	88.749% ⓘ
SibSp	2.161%	0	Yes	11.251% ⓘ
Embarked	1.817%	S		
Age	1.179%	24		

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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
Sex	44.631%	female	✖️	You made 1 change to your sections. Update for a new prediction and feature importance metrics.	
Pclass	33.857%	3			
Fare	15.219%	8.05			
SibSp	2.161%	0			
Embarked	1.817%	S	▼		
Age	1.179%	24			



No

Average prediction

No

88.749% ⓘ

Download



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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
Embarked	1.105%	S	🕒	No	<p>You made 1 change to your sections. Update for a new prediction and feature importance metrics.</p> <p>Update</p> <p>New prediction</p> <p>Average prediction</p>
Age	2.369%	2	🕒		
Parch	0.223%	0	🕒		
PassengerId	0%	1	🕒		
Name	0%	Abbing, Mr. Anthony	🕒		
Ticket	0%	1601	🕒		



Download



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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
Embarked	1.105%	S	🕒	You made 1 change to your sections. Update for a new prediction and feature importance metrics. No	Copy
Age	2.369%	2	🕒		
Parch	0.223%	0	🕒		
PassengerId	0%	1	🕒		
Name	0%	Abbing, Mr. Anthony	🕒		
Ticket	0%	1601	🕒		

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

Update

No

New prediction
Average prediction

Download



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titanic-quickmodel-20221009

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Share

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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
Embarked	3.986%	S	Yes	<input type="button" value="New prediction"/> <input type="button" value="Average prediction"/>
Age	31.441%	2	No	49.279% <input type="button" value="i"/>
Parch	1.553%	0	Yes	50.721% <input type="button" value="i"/>
PassengerId	0%	1		
Name	0%	Abbing, Mr. Anthony		
Ticket	0%	1601		

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Thank you!

Michael Lin

linmicht@amazon.com



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