

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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Terms & Conditions

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

#

[Accept Terms & Login](#)

Event Engine - Team Dashboard X +

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

↑ ★ ⌂ T Paused ⋮

Event Engine

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](#)



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 X

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

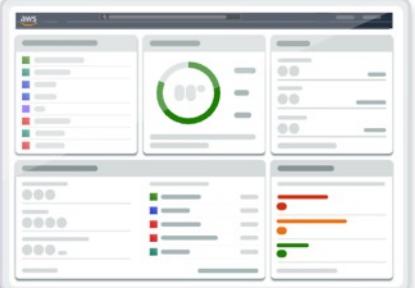


Register a domain

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.

[Learn more](#)



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,

Amazon SageMaker

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MACHINE LEARNING

Amazon SageMaker

Build, train, and deploy machine learning models at scale

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

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](#)[Tutorials](#)[Documentation](#)[Developer Resources](#)[AWS Developer Forum](#)[Contact us](#)

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Getting Started

Amazon SageMaker provides machine learning (ML) capabilities that are purpose-built for data scientists and developers to prepare, build, train, and deploy high-quality ML models efficiently.

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



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

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.





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

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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](#)



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](#)

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Standard setup (10 min)

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- SageMaker Studio Integration
- Sharable SageMaker Studio Notebooks
- SageMaker Canvas
- IAM Authentication

Perfect for single user domains and finding the right balance of security.

User profile

Name

sagemakeruser-20221007

The name can have up to 63 characters.

Default execution role

SageMaker Domain requires permission to perform actions in other AWS services on your behalf. You can choose from a range of capabilities, you may attach them to an existing role or let us create one for you. If you don't have a suitable role, we can create one for you.

Create a new role

! Required

Enable SageMaker Canvas permissions Info

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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, bucket-name-2`

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

Setup SageMaker Domain

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

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

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- SageMaker Canvas
- IAM Authentication

Perfect for single user domains and finding notebooks.

User profile

Name

sagemakeruser-20221007

The name can have up to 63 characters.

Default execution role

SageMaker Domain requires permission to perform actions in other AWS services on your behalf. You can choose a range of capabilities, you may attach them to an existing role or let us create one for you. If you don't have a policy, we can create one for you.

Create a new role

 Required

Enable SageMaker Canvas permissions Info

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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

IAM Authentication

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IAM, or IAM Identity Center (successor to AWS SSO)

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User profile

Name

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

Default execution role

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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](#)

Amazon SageMaker X

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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

< 1 >



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



Studio

Domain

 Status Pending Authentication method

AWS Identity and Access Management (IAM)

 Domain IDd-
ynvbid9dkcth Execution rolearn:aws:iam::1
11735445051:

Amazon SageMaker X

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Search

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✔ The SageMaker Domain is ready

Choose your user name, then choose Launch app to get started.

 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

< 1 >



Name

Modified on

Created on

sagemakeruser-20221007

Oct 08, 2022
10:59 UTCOct 08, 2022
10:59 UTC

Launch app

Apps

Configure apps to manage your ML workflow using SageMaker.

Studio

Studio Lab

Canvas

RStudio



Studio

Domain

Status 

Ready

Authentication method 

AWS Identity and Access Management (IAM)

Domain ID 

d-ynvbid9dkcth

Execution role 

arn:aws:iam::11735445051:



Amazon SageMaker

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i 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](#)[<](#) [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... 



Canvas



Models



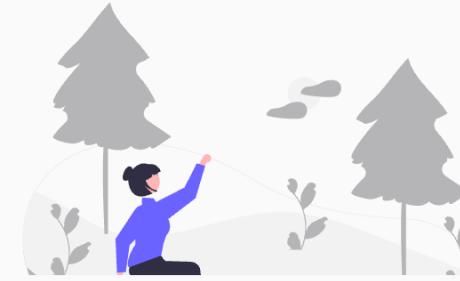
Datasets



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

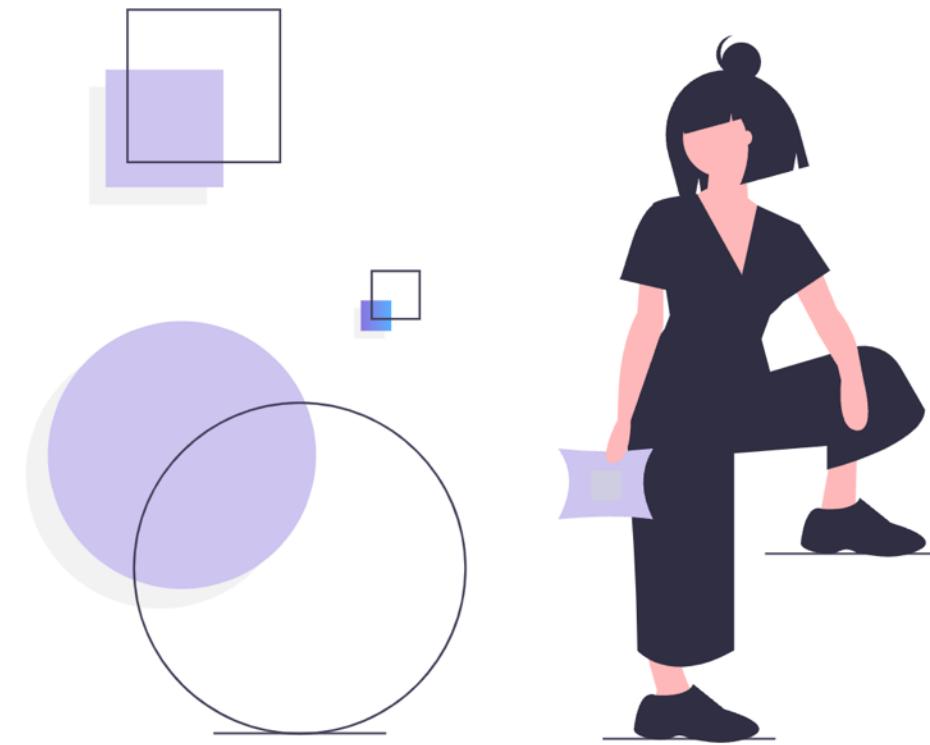




Models

Search models

+ New model



You haven't created any models yet.

Create a new model.

+ New model

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

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



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

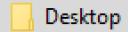
Organize New folder

More



	Name	Status	Date modified	Type	Size
Quick access	test	○	2/15/2022 10:23 PM	Microsoft Excel C...	28 KB
Creative Cloud File	train	○	2/15/2022 10:23 PM	Microsoft Excel C...	60 KB

iCloud Drive



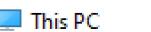
Desktop



Documents



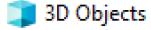
Downloads



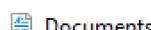
Shortcuts

TextEdit

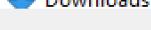
This PC



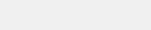
3D Objects



Desktop



Documents



Downloads

File name: train

Microsoft Excel Comma Separated

Open

Cancel

or

Select files from your computer

Cancel

Import data



Type here to search



11:47 AM
ENG
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

Import

X

[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 ⓘ[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... ...	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	24	0	0



Type here to search

11:47 AM
10/9/2022

[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
<input checked="" type="radio"/> train.csv	Local	12	891	10,692	10/09/2022 11:47 AM	Ready
<input type="radio"/> canvas-sample-sales-forecasting.csv	S3	5	1,000	5,000	10/05/2022 11:22 PM	Ready
<input type="radio"/> canvas-sample-diabetic-readmission.csv	S3	16	1,000	16,000	10/05/2022 11:22 PM	Ready
<input type="radio"/> canvas-sample-loans-part-2.csv	S3	5	1,000	5,000	10/05/2022 11:22 PM	Ready
<input type="radio"/> canvas-sample-shipping-logs.csv	S3	12	1,000	12,000	10/05/2022 11:22 PM	Ready
<input type="radio"/> canvas-sample-housing.csv	S3	10	1,000	10,000	10/05/2022 11:22 PM	Ready
<input type="radio"/> -----	S3	0	1,000	0,000	10/05/2022 11:22 PM	Ready

[Select dataset](#)

Type here to search

11:47 AM
10/9/2022

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

11:48 AM
10/9/2022

Select

Build

Analyze

Predict

i 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

 X ▼

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							
Column name	Data type	Missing	Mismatched	Unique	Mean / Mode	Correlation to target	Data visualizer
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

Select

Build

Analyze

Predict

i 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

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



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



11:49 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



Data visualizer

train.csv

Full dataset: 891 rows



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



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

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



11:49 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



train.csv

Full dataset: 891 rows 



Data visualizer



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
 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
<input checked="" type="checkbox"/> Sex	Binary	0.00% (0)	0.00% (0)	2	male	-0.543
<input checked="" type="checkbox"/> Pclass	Numeric	0.00% (0)	0.00% (0)	3	3	-0.338
<input checked="" type="checkbox"/> PassengerId	Numeric	0.00% (0)	0.00% (0)	891	1	-0.005
<input checked="" type="checkbox"/> Parch	Numeric	0.00% (0)	0.00% (0)	7	0	0.082
<input checked="" type="checkbox"/> Name	Text	0.00% (0)	0.00% (0)	891	Abbing, Mr. Anthony	N/A
<input checked="" type="checkbox"/> Fare	Numeric	0.00% (0)	0.00% (0)	248	8.05	0.257
<input checked="" type="checkbox"/> Embarked	Categorical	0.22% (2)	0.00% (0)	3	S	N/A
<input checked="" type="checkbox"/> Cabin	Text	77.10% (687)	0.00% (0)	147	B96 B98	N/A
<input checked="" type="checkbox"/> Age	Numeric	19.87% (177)	0.00% (0)	71	24	-0.077

Total columns: 12

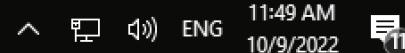
Total rows: 891

Total cells: 10,692

Show dropped columns

11:49 AM

10/9/2022



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

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

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



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

train.csv

Full dataset: 891 rows



Remove rows by

Replace

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.

<input type="checkbox"/>	Column name ↓	Data type	Missing ⓘ	Mismatched ⓘ		
<input type="checkbox"/>	Ticket	Numeric	0.00% (0)	0.00% (0)	681	1,601
<input checked="" type="radio"/>	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



Type here to search



11:51 AM 10/9/2022 ENG

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



Functions

Data visualizer

Model recipe



<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="radio"/>	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



Type here to search



11:52 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

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="radio"/> Survived	Target Binary			0	
<input checked="" type="checkbox"/> SibSp	Numeric			0	
<input checked="" type="checkbox"/> Sex	Binary			male	
<input checked="" type="checkbox"/> Pclass	Numeric			3	
<input type="checkbox"/> PassengerId	Numeric			1	
<input checked="" type="checkbox"/> Parch	Numeric			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



Type here to search



11:52 AM
10/9/2022

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



Type here to search



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

male

female

Sex

train.csv

Total columns: 8

Total rows: 891

Total cells: 7,128

Survived

2 category prediction

Predict

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
			



Type here to search

11:53 AM
ENG
10/9/2022

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
Sex	<div><div style="width: 44.631%;"></div></div> 44.631%	<input type="text" value="male"/>
Pclass	<div><div style="width: 33.857%;"></div></div> 33.857%	<input type="text" value="3"/>
Fare	<div><div style="width: 15.219%;"></div></div> 15.219%	<input type="text" value="8.05"/>
SibSp	<div><div style="width: 2.161%;"></div></div> 2.161%	<input type="text" value="0"/>
Embarked	<div><div style="width: 1.817%;"></div></div> 1.817%	<input type="text" value="S"/>
Age	<div><div style="width: 1.179%;"></div></div> 1.179%	<input type="text" value="24"/>

Survived Prediction

No

Average prediction

No

88.749% ⓘ

Yes

11.251% ⓘ

Download



Type here to search

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10/9/2022

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
Sex	<div><div style="width: 44.631%; background-color: #000080;"></div></div> 44.631%	<input type="text" value="female"/> 🕒
Pclass	<div><div style="width: 33.857%; background-color: #000080;"></div></div> 33.857%	<input type="text" value="3"/> 🕒
Fare	<div><div style="width: 15.219%; background-color: #000080;"></div></div> 15.219%	<input type="text" value="8.05"/>
SibSp	<div><div style="width: 2.161%; background-color: #000080;"></div></div> 2.161%	<input type="text" value="0"/>
Embarked	<div><div style="width: 1.817%; background-color: #000080;"></div></div> 1.817%	<input type="text" value="S"/> 🕒
Age	<div><div style="width: 1.179%; background-color: #000080;"></div></div> 1.179%	<input type="text" value="24"/>

Survived Prediction

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

Update

No

Average prediction

No

88.749% ⓘ

 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
Embarked	1.105%	S
Age	2.369%	21
Parch	0.223%	0
PassengerId	0%	1
Name	0%	Abbing, Mr. Anthony
Ticket	0%	1601

Survived Prediction

Copy

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

Update

No

- New prediction
- Average prediction

55.259%

Download



Type here to search

11:55 AM
ENG
10/9/2022

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
Embarked	1.105%	S
Age	2.369%	2
Parch	0.223%	0
PassengerId	0%	1
Name	0%	Abbing, Mr. Anthony
Ticket	0%	1601

Survived Prediction

Copy

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

Update

No

- New prediction
- Average prediction

55.259%

Download



Type here to search

11:55 AM
ENG
10/9/2022

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
Embarked	<div><div style="width: 3.986%;">3.986%</div></div>	<input type="text" value="S"/>
Age	<div><div style="width: 31.441%;">31.441%</div></div>	<input type="text" value="2"/>
Parch	<div><div style="width: 1.553%;">1.553%</div></div>	<input type="text" value="0"/>
PassengerId	<div><div style="width: 0%;">0%</div></div>	<input type="text" value="1"/>
Name	<div><div style="width: 0%;">0%</div></div>	<input type="text" value="Abbing, Mr. Anthony"/>
Ticket	<div><div style="width: 0%;">0%</div></div>	<input type="text" value="1601"/>

Survived Prediction

Copy

Yes

New prediction
Average prediction

No 49.279% ⓘ

Yes 50.721% ⓘ

Download



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Thank you!

Michael Lin

linmicht@amazon.com

