



AWS mAdvisor autoML

User Instruction Manual

Table of Contents

Index	Content	Page Numbers
1.	Pre-requisites	3
2.	AWS Marketplace	4-5
3.	AWS mAdvisor Automl	6-9
4.	AWS SageMaker training job	10-14
5.	Create Model Package & model	15-17
6.	Batch transform jobs	18-20
7.	Limitations	21



1. Pre-requisites

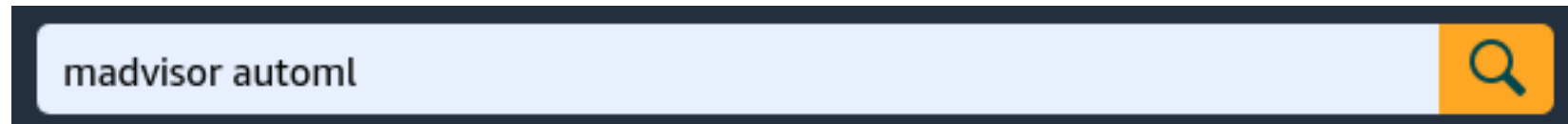
- 1. AWS user account with providing billing account details.

2. AWS Marketplace

- AWS mAdvisor Automl homepage: https://aws.amazon.com/marketplace/pp/prodview-w3icje43u6d7w?ref_=beagle&applicationId=AWSMPContessa

OR

- Do search in browser for AWS Marketplace or click on the following link <https://aws.amazon.com/marketplace> to get into AWS Marketplace.
- Search for madvisor automl in search bar and then click **enter** button to get search results.



- Only one search result will get displayed, that's mAdvisor automl SaaS product.

madvisor automl (1 result) showing 1 - 1

< 1 > ⚙

Sort By: Relevance ▼



mAdvisor Automl

By **Marlabs Inc** | Ver V1.0

 **Free Trial**

mAdvisor is an AutoML platform that translates data from enterprise systems into meaningful insights & predictions in the form of narratives without any manual intervention. AutoML gives users the power of cognitive technologies like machine learning, machine reasoning, deep learning, natural...

- The above search results will get displayed after clicking on Enter button. And then click on underlined mAdvisor Automl link text to get into AWS mAdvisor automl home page.

mAdvisor Automl

By **Marlabs Inc** | Ver V1.0

 **Free Trial**

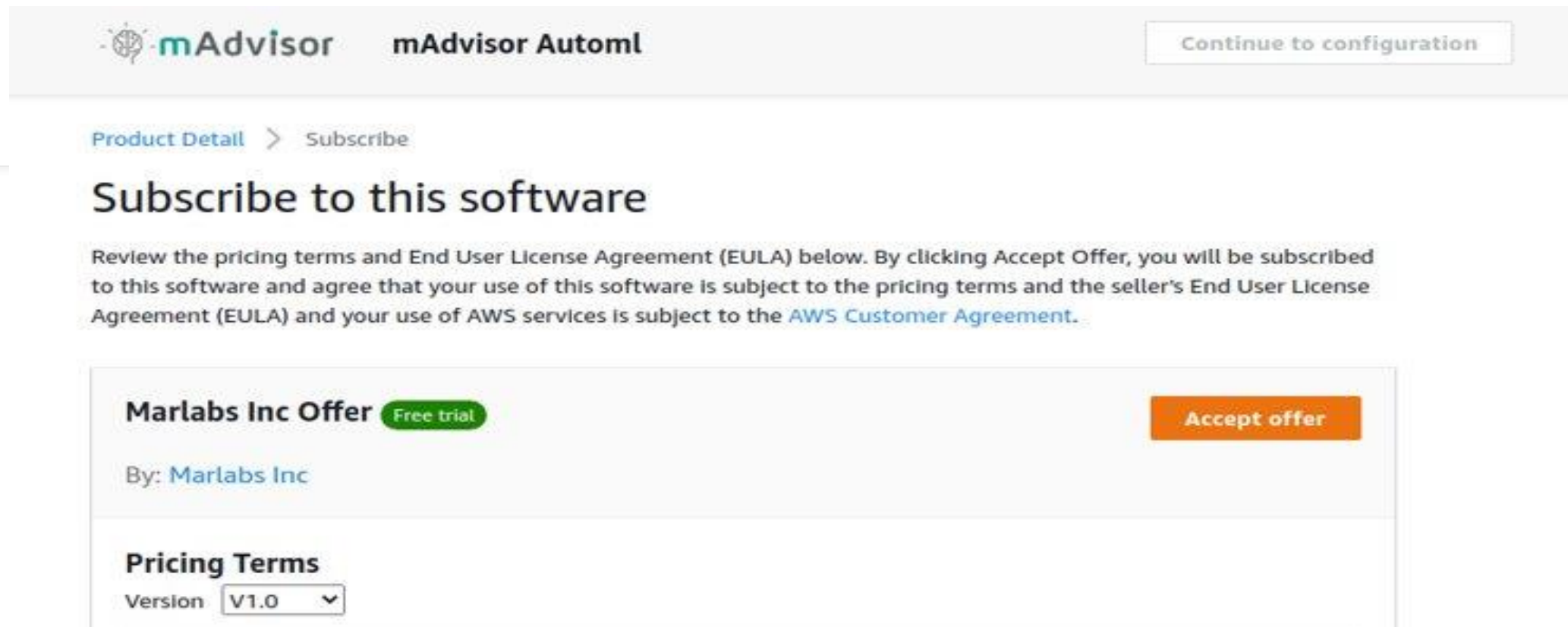
3. AWS mAdvisor Automl

- You will get landed in AWS mAdvisor automl homepage, have a read for *overview, Key Data, Pricing Information, Usage Information, and Support Information* of the product.
- Then click on **Continue to Subscribe** button to use the service.
- After clicking on the button, will redirect to you to login page and confirm with login credentials.

Continue to Subscribe

Save to List

Contd;



The screenshot shows the mAdvisor Automl subscription interface. At the top, there is a header with the mAdvisor logo and the text 'mAdvisor Automl'. A button labeled 'Continue to configuration' is located in the top right corner. Below the header, there is a breadcrumb trail: 'Product Detail > Subscribe'. The main heading is 'Subscribe to this software'. Below this, a paragraph states: 'Review the pricing terms and End User License Agreement (EULA) below. By clicking Accept Offer, you will be subscribed to this software and agree that your use of this software is subject to the pricing terms and the seller's End User License Agreement (EULA) and your use of AWS services is subject to the [AWS Customer Agreement](#).' Below this text, there is a section titled 'Marlabs Inc Offer' with a green 'Free trial' badge. To the right of this section is an orange 'Accept offer' button. Below the offer section, there is a 'Pricing Terms' section with a dropdown menu showing 'Version V1.0'.

- Please have a read about **Pricing Terms, and End User License Agreement** details before Accepting the offer from Marlabs.
- After reading click on "**Accept offer**" button to continue with Subscription.

Contd;

- It will take a minute and will show below message as confirmation of Subscription.

✓ Thank you for subscribing. You can now use your product.



Marlabs Inc Offer Free trial

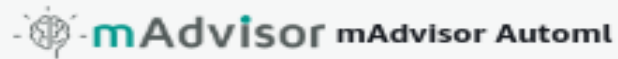
Already Subscribed

By: [Marlabs Inc](#)

- Then click on "**Continue to configuration**" button, to do configuration and use the service.

Continue to configuration

Contd;



[Product Detail](#) > [Subscribe](#) > [Configure](#)

Configure and launch

Configure for Amazon SageMaker console

Software Version

V1.0

Region

US East (N. Virginia)

Product Arn

arn:aws:sagemaker:us-east-1:865070037744:algorithm/automl-algorithm-4f6c5608091605e023780594fd08787a



Amazon SageMaker options



Create a training job

Train your model by creating training job



Create a hyperparameter tuning job

Tune your model by creating automatic model tuning job

[Learn more about model training](#)

[Learn more about cleaning up unused resources](#)

Cost Summary

Software

You have selected algorithm configuration. You're charged for the algorithm based on the product's [pricing model](#) for training and for inference.

Infrastructure

Costs for infrastructure are independent and in addition to the costs of software.

Free Trial

Try this product for 30 days. There will be no software charges, but AWS infrastructure charges still apply. Free Trials will automatically convert to a paid subscription upon expiration.

[View in Amazon SageMaker](#)

4. AWS SageMaker

- We can select the Software version and Region we want to use by clicking on dropdown.
- Then there will be two Amazon sagemaker options, **"Create a training job"** and **"Create a hyperparameter tuning job"** (Enabled once done with training job).
- Once selecting the one of Sagemaker option, Click on the view in Amazon SageMaker Button, it will redirect to Amazon Sagemaker Page to create training job.


[View in Amazon SageMaker](#)

Contd;

- AWS Sagemaker Page header will get showed as below after clicking on the "**View in Amazon Sagemaker**" button.

[Amazon SageMaker](#) > [Algorithms: My Subscriptions](#) > [View subscription details](#) > [Algorithms](#) > Using algorithm "automl-algorithm-4f6c5608091605e023780594fd08787a"

Create training job

When you create a training job, Amazon SageMaker sets up the distributed compute cluster, performs the training, and deletes the cluster when training has completed. The resulting model artifacts are stored in the location you specified when you created the training job. [Learn more](#) 

- To run the training job, need to provide **Job name** under **Job settings**,

Job settings

Job name

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

- Target column name to **Value** in **Hyperparameters** and

Hyperparameters

You can use hyperparameters to finely control training. We've set default hyperparameters for the algorithm you've chosen.

Key

Target

Value

Survived

- Input dataset location, which is in S3 location in **Input data configuration** to S3 location textbox.

S3 location

s3://dataset-titanic/titanic_train.csv

Contd;

- And provide S3 bucket folder location to save the training model outputs into S3 folder S3 under "**output path**" in **Output data configuration**.

Output data configuration

S3 output path

- Finally click on "**Create training Job**" button to create the training job for given dataset.


Create training job


Contd;

- After click on **"Create training job"** button, it will take some time to complete the job, here it took 11 minutes to complete the training job. And can see these in training jobs, by searching **"Amazon SageMaker"** in search bar then **Training jobs** under **Training**.

Amazon SageMaker > Training jobs

Training jobs

 Actions ▼ Create training job

< 1 > 

	Name ▼	Creation time ▼	Duration	Status ▼
<input type="radio"/>	titanic-job	Jun 24, 2021 05:40 UTC	11 minutes	✓ Completed

5. Create model package

- Now, will create the model package to do scoring job by clicking on the training job that got created recently, "**titanic-job**" and then click on the **Create model Package** button inside the created training job page and it's 2 two step process.

Create model package

- Step 1: **Inference specifications**

Create Model Package by providing **Model package name** inside the text box and keep other options as default and then click on **Next** button.

Model package name

titanic-model-package

The model package name must be unique in your account and in the AWS Region and can have up to 63 characters. Valid characters: a-z, A-Z, 0-9, and - (hyphen)

Contd;

- Step 2 : **Validation specifications**

Here click on "**Create model package**" button to create the model package.

Create model package

- Once the completion creation of model package will shown as below.

Model packages				
<div><div><div></div></div><div>Search model packages</div></div>				
<div><div><div></div></div><div>Actions ▼</div></div> <div><div>Find model packages</div><div></div></div> <div>Create model package</div>				
<div><div>< 1 ></div><div></div></div>				
	Name ▼	Status	ARN	Creation time ▼
<div></div>	titanic-model-package	✔ Completed	arn:aws:sagemaker:us-east-1:325472245914:model-package/titanic-model-package	Jun 25, 2021 07:32 UTC

Contd;

- After completion of model package, create model by clicking "**Create model**" button in the created model package page.

A rectangular button with a thin black border and a light gray background. The text "Create model" is centered inside the button in a blue, sans-serif font.

Create model

- Then provide "**Model name**" under Create model page, and keep all the values as default

Model name

A text input field with a blue border. The text "titanic-model" is entered into the field, and the cursor is at the end of the text.

titanic-model

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

and then click on "**Create model**" button.

A rectangular button with a solid orange background. The text "Create model" is centered inside the button in a white, sans-serif font.

Create model

6. Batch transform jobs

- Need to create Batch transform jobs, to do scoring. Click on **Batch transform jobs** under **Inference** in Sagemaker page.
- Then click on the **Create batch transform job** button to do scoring job.

Create batch transform job

- In the Create batch transform job page, provide **Job name**, and **Model name** by clicking on **Find model** button.

Job name

titanic-test

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

Model name

titanic-model

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

Find model

Contd;

- Provide **Instance type** and **Instance count** to run the scoring job.

Instance type

ml.m4.xlarge

Instance count

1

- Pass **Content type** (mandatory) and test dataset location, which in S3 bucket in **S3 location** as shown in Image under **Input data configuration**.

Content type - optional

text/csv

For content types that are available in built-in algorithms, [view our documentation](#)

S3 location

s3://dataset-titanic/titanic_test.csv

To find a path, [go to Amazon S3](#)

Contd;

- Provide S3 folder location to get saved output scoring results in that location under **Output data configuration**.

Output data configuration

S3 output path

To find a path, [go to Amazon S3](#)

- Finally, click on "**Create job**" button by keeping other values as default, will take some time and results will get saved in the given output location.

Create job

7. Limitations

- There is a limitation for batch transform jobs, if scoring dataset size is more than 5 MB then AWS will return the following message as an issue;
too much data for max payload size
- So we need to make sure that the test dataset size should be less than 5MB size.