

2022 2-MACHINE LEARNING-2 x All services - Microsoft Azure x +

https://portal.azure.com/#allservices/category/AI%20Machine%20Learning

Microsoft Azure Search resources, services, and docs (G+)

aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...)

### All services | AI + Machine Learning

- General
- Compute
- Networking
- Storage
- Web
- Mobile
- Containers
- Databases
- Analytics
- AI + machine learning
- Internet of Things
- Mixed reality
- Integration
- Identity
- Security
- DevOps

- Anomaly detectors
- Computer vision
- Custom vision
- Form recognizers
- Language understanding
- Personalizers
- Cognitive Search
- Language
- Azure Machine Learning
- Machine Learning
- Machine Learning Studio (classic) web service plans

- Cognitive services multi-service account
- Content moderators
- Face APIs
- Immersive readers
- Metrics advisors
- QnA makers
- Speech services
- Translators

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Help improve this page

https://portal.azure.com/#blade/HubsExtension/BrowseResourceBlade/resourceType/Microsoft.MachineLearningServices/workspaces

2022 2-MACHINE LEARNING-2 x Azure Machine Learning - Microsoft Azure x +

https://portal.azure.com/#view/HubsExtension/BrowseResource/resourceType/Microsoft.MachineLearningServices/workspaces

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### Azure Machine Learning

UCompensar (ucompensar.edu.co)

+ Create Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Type equals all Resource group equals all Location equals all Add filter

No grouping List view

Name	Resource group	Location	Subscription	Type
------	----------------	----------	--------------	------

No workspaces to display

Workspaces are where you manage all the models, assets, and data related to your machine learning projects. Create one now to start using Azure Machine Learning.

Create workspace

Create Learn more

Give feedback

2022 2-MACHINE LEARNING-2

Azure Machine Learning - Mic

+

←→↻🏠🔒🔑https://portal.azure.com/#create/Microsoft.MachineLearningServices...

Microsoft Azure 🔍 Search resources, services, and docs (G+/)

All services > Azure Machine Learning >

# Azure Machine Learning

Create a machine learning workspace

BasicsNetworkingAdvancedTagsReview + create

## Resource details

Every workspace must be assigned to an Azure subscription, which is where billing happens. You use resource groups like folders to organize and manage resources, including the workspace you're about to create.  
[Learn more about Azure resource groups](#)

Subscription \* ⓘ

Azure for Students

Resource group \* ⓘ

(New) aml\_rg

Create new

## Workspace details

Configure your basic workspace settings like its storage connection, authentication, container, and more. [Learn more](#)

Workspace name \* ⓘ

azuremachinelearning

Region \* ⓘ

UK South

Storage account \* ⓘ

(new) azuremachinele8714516150

Review + create

< Previous

Next : Networking

2022 2-MACHINE LEARNING-2

Azure Machine Learning - Mic

+

←→↻🏠🔒🔑https://portal.azure.com/#create/Microsoft.MachineLearningServices...

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All services > Azure Machine Learning >

# Azure Machine Learning

Create a machine learning workspace

BasicsNetworkingAdvancedTagsReview + create

## Network connectivity

You can connect to your workspace either publicly or privately using a private endpoint.

Connectivity method \*

☒ Enable public access from all networks

☐ Disable public access and use private endpoints

Review + create

< Previous

Next : Advanced

2022 2-MACHINE LEARNING-2 x Azure Machine Learning - Micr x +

https://portal.azure.com/#create/Microsoft.MachineLearningServices

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All services > Azure Machine Learning >

## Azure Machine Learning

Create a machine learning workspace

Basics Networking **Advanced** Tags Review + create

### Managed identity

A managed identity enables Azure resources to authenticate to cloud services without storing credentials in code. Once enabled, all necessary permissions can be granted via Azure role-based access control. A workspace can be given either a system assigned identity or a user assigned identity.

Identity type

☒ System assigned identity

☐ User assigned identity

**⚠ The managed user assigned identity option is only supported if an existing storage account, key vault, and container registry are used.**

### Storage account access

Azure machine learning allows you to choose between credential-based or identity-based access when connecting to the default storage account. When using identity-based authentication, the Storage Blob Data Contributor role must be granted to the workspace managed identity on the storage account. [Learn more](#)

[Credential-based access](#)

[Review + create](#) < Previous Next : Tags

[https://docs.microsoft.com/azure/machine-learning/how-to-identity-based-data-access?WT.mc\\_id=Portal-Microsoft\\_Azure\\_MLTeamAccounts](https://docs.microsoft.com/azure/machine-learning/how-to-identity-based-data-access?WT.mc_id=Portal-Microsoft_Azure_MLTeamAccounts)

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https://portal.azure.com/#create/Microsoft.MachineLearningServices

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## Azure Machine Learning

Create a machine learning workspace

Basics Networking Advanced **Tags** Review + create

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name ○ Value ○

:

[Review + create](#) < Previous Next : Review + create

<https://go.microsoft.com/fwlink/?linkid=873112>

2022 2-MACHINE LEARNING-2 X Azure Machine Learning - Micri X +

https://portal.azure.com/#create/Microsoft.MachineLearningServices

Microsoft Azure Search resources, services, and docs (G+/)

All services > Azure Machine Learning >

## Azure Machine Learning

Create a machine learning workspace

Validation passed

Basics Networking Advanced Tags **Review + create**

**Basics**

Subscription	Azure for Students
Resource group	(New) aml_rg
Region	UK South
Workspace name	azuremachinelearning
Storage account	(new) azuremachinele8714516150
Key vault	(new) azuremachinele2826770038
Application insights	(new) azuremachinele9927953956
Container registry	None

**Networking**

Connectivity method Enable public access from all networks

Create < Previous Next > Download a template for automation

2022 2-MACHINE LEARNING-2 X Microsoft.MachineLearningServices X +

https://portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/\_overview/id/%2Fsubscriptions/...

Microsoft Azure Search resources, services, and docs (G+/)

All services >

## Microsoft.MachineLearningServices | Overview

Deployment

Search << Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

### Deployment is in progress

Deployment name: Microsoft.MachineLearningServices Start time: 10/10/2022, 8:52:20 AM  
Subscription: Azure for Students Correlation ID: 0cd5dcae-e7ce-4d18-a9a1-f97d69a1ffa6

Resource group: aml\_rg

Deployment details

Resource	Type	Status	Operation details
No results.			

Give feedback  
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**Microsoft Defender for Cloud**  
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**Work with an expert**  
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.  
[Find an Azure expert >](#)

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All services > Microsoft.MachineLearningServices | Overview ☆ ...

Deployment

Search « Delete Cancel Redeploy Download Refresh

Overview  
Inputs  
Outputs  
Template

✓ Your deployment is complete

Deployment name: Microsoft.MachineLearningServi... Start time: 10/10/2022, 8:52:20 AM  
Subscription: Azure for Students Correlation ID: 0cd5dcae-e7ce-4d18-a9a1-f97d69a1ffa6

Deployment details  
Next steps  
Go to resource

Give feedback  
Tell us about your experience with deployment

Cost Management  
Get notified to stay within your budget and prevent unexpected charges on your bill.  
Set up cost alerts >

Microsoft Defender for Cloud  
Secure your apps and infrastructure  
Go to Microsoft Defender for Cloud >

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Start learning today >

Work with an expert  
Azure experts are service provider partners who can help manage your assets on Azure

2022 2-MACHINE LEARNING-2 x azuremachinelearning - Micro x

https://portal.azure.com/#@ucompensar.edu.co/resource/subscriptions/1aee89a2-7a89-40a2-a937-43c65b418715 aayalap@ucompensar.e... UCOMPENSAR (UCOMPENSAR.E...)

Microsoft Azure Search resources, services, and docs (G+)

All services > Microsoft.MachineLearningServices | Overview > azuremachinelearning ☆ ...

Azure Machine Learning workspace

Search « Download config.json Delete

Overview  
Activity log  
Access control (IAM)  
Tags  
Diagnose and solve problems  
Events

Settings  
Networking  
Properties  
Locks

Monitoring  
Alerts  
Metrics  
Diagnostic settings

Essentials

Resource group : aml\_rg  
Location : UK South  
Subscription : Azure for Students  
Subscription ID : 1aee89a2-7a89-40a2-a937-43c65b418715  
Storage : azuremachinele8714516150

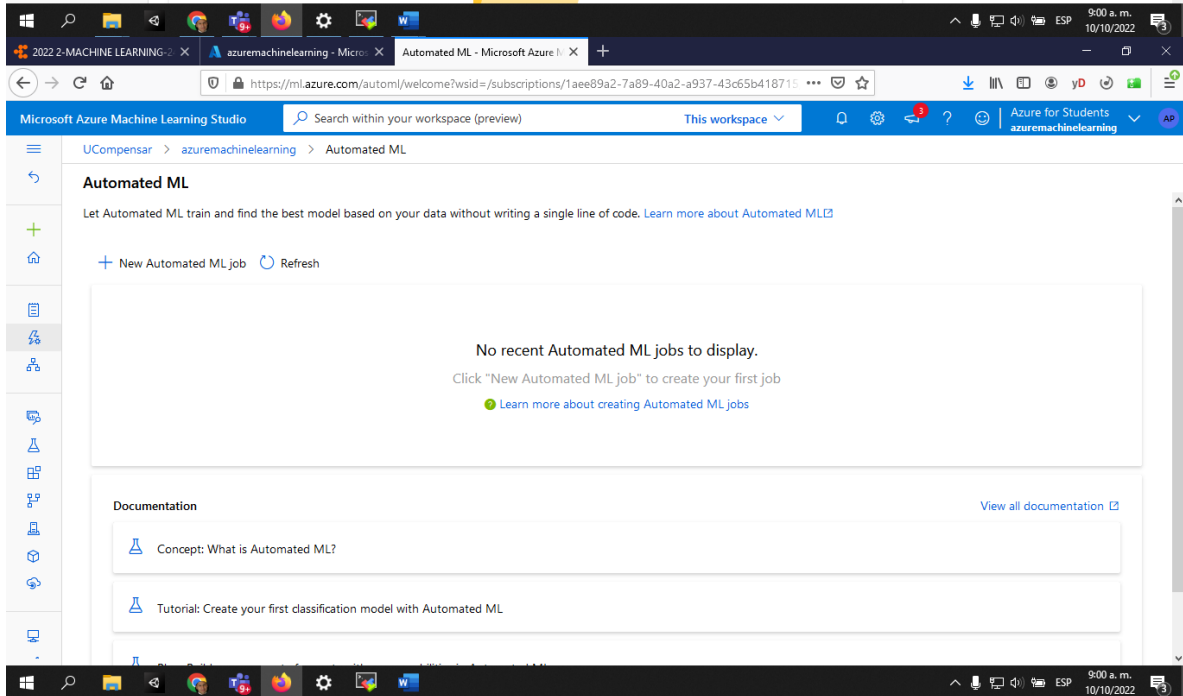
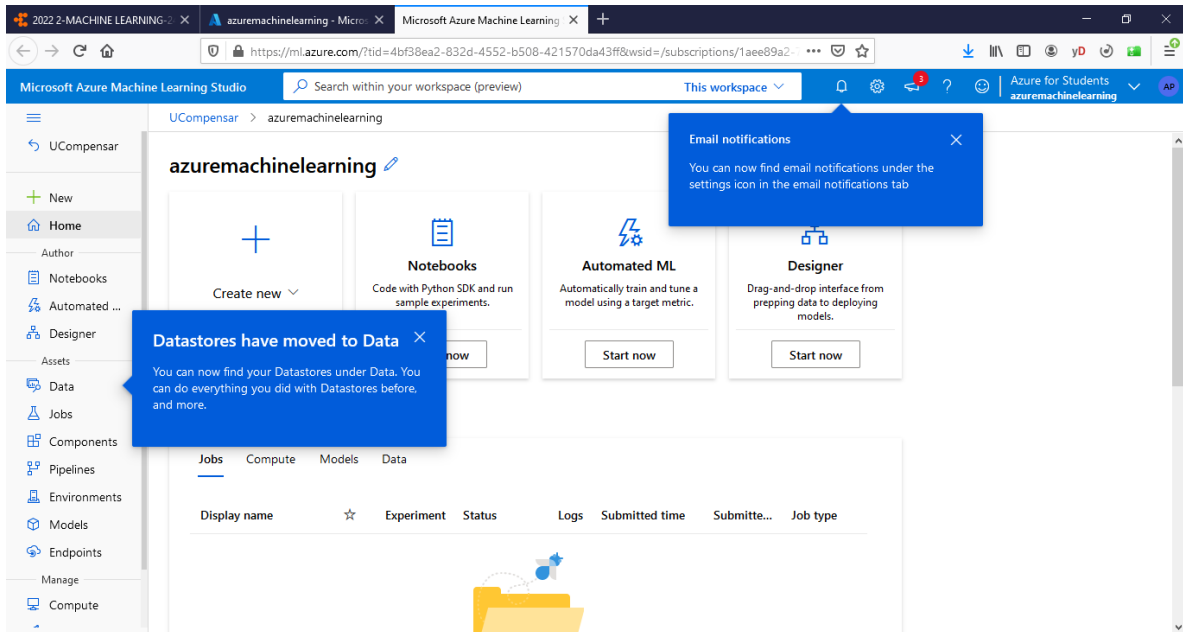
Studio web URL : https://ml.azure.com/?tid=4bf38ea2-832d-4552-b508-421...  
Container Registry : ...  
Key Vault : azuremachinele2826770038  
Application Insights : azuremachinele9927953956  
MLflow tracking URI : azureml:/uksouth.api.azureml.ms/mlflow/v1.0/subscriptio...

JSON View

Work with your models in Azure Machine Learning Studio

The Azure Machine Learning Studio is a web app where you can build, train, test, and deploy ML models. Launch it now to start exploring, or learn more about the Azure Machine Learning Studio

Launch studio



Microsoft Azure Machine Learning Studio

Search within your workspace (preview) This workspace

UCompensar > azuremachinelearning > Automated ML > Start job

### Create a new Automated ML job

- Select data asset**
- Configure job
- Select task and settings
- Hyperparameter configuration (Computer Vision only)
- Validate and test

Select an input data asset from the list below, or create a new data asset. AutomatedML currently only supports tabular data for authoring jobs.

+ Create Refresh Show supported data assets only

Search

All filters Clear all

Page size: 25

Name	Dataset type	Created on	Modified on

Back Next Cancel

Microsoft Azure Machine Learning Studio

Search within your workspace (preview) This workspace

UCompensar > azuremachinelearning > Automated ML > Start job

### Create data asset

- Data type**
- Data source

#### Set the name and type for your data asset

Name \*

Description

Type \*

Back Next Cancel

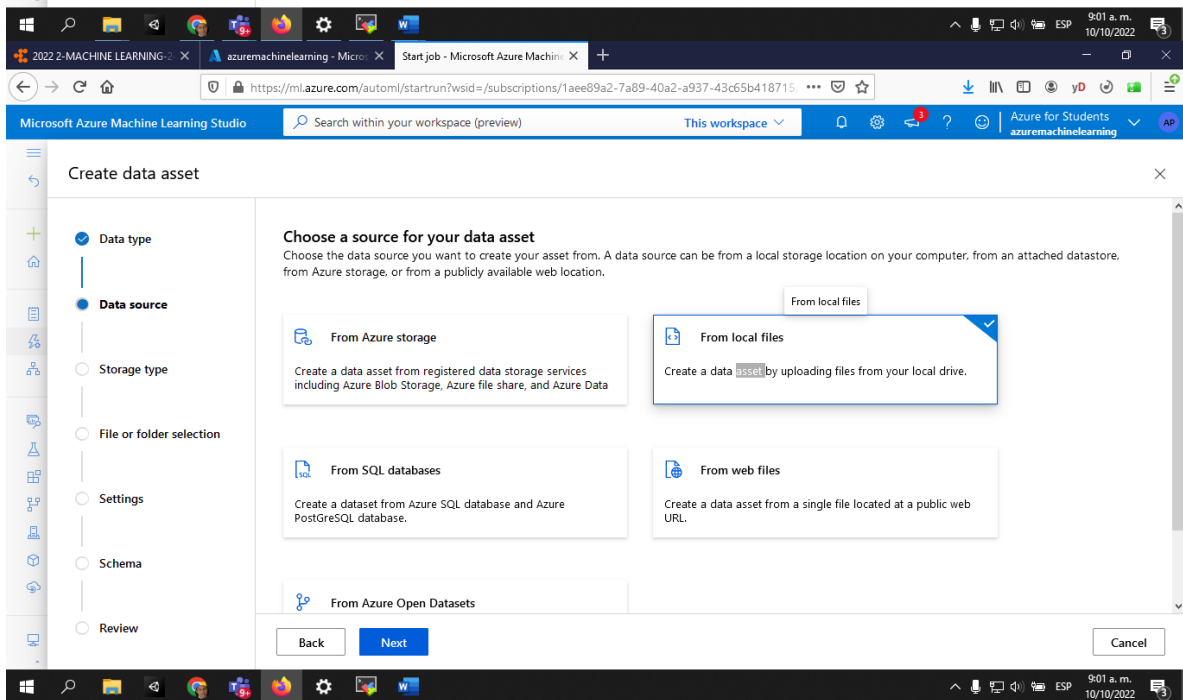
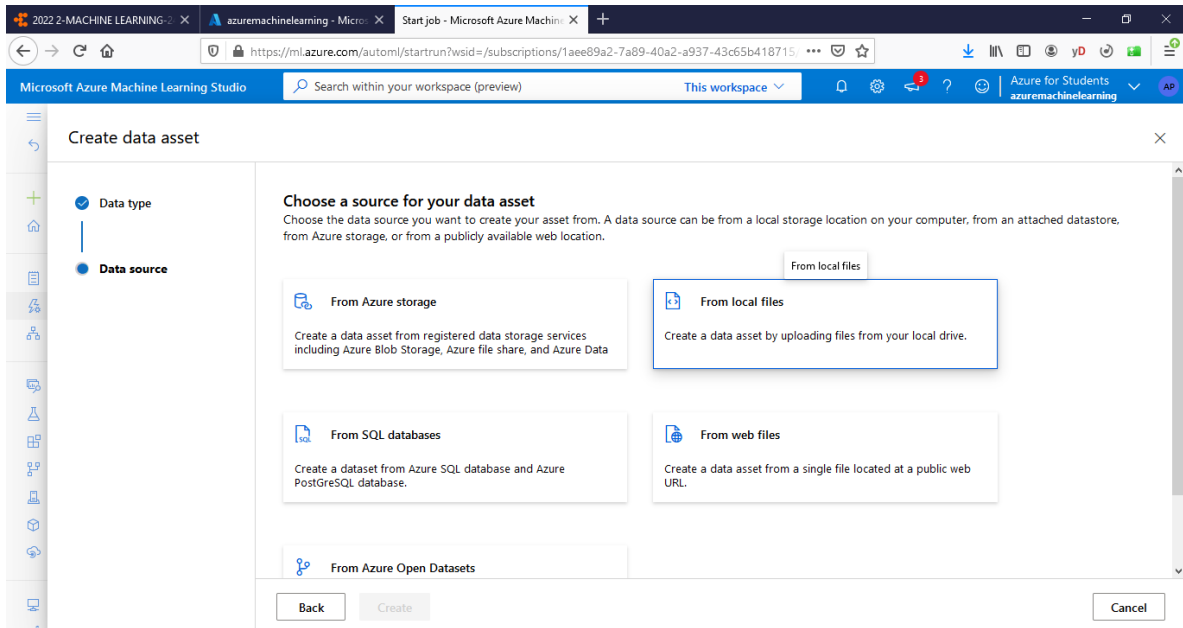
#### Use cases for data types

##### When should I use File type?

The File type is recommended in most scenarios when you are working with a single data file of any type (including tabular data). This type allows you to specify a file location by URI in a storage location on your local computer, an attached Datastore, blob/ADLS storage, or a publicly available http(s) location. There are many types of supported URIs. In the Azure Machine Learning CLI v2 or Python SDK v2, this data type is called `uri_file`. [Learn more about the uri\\_file type](#)

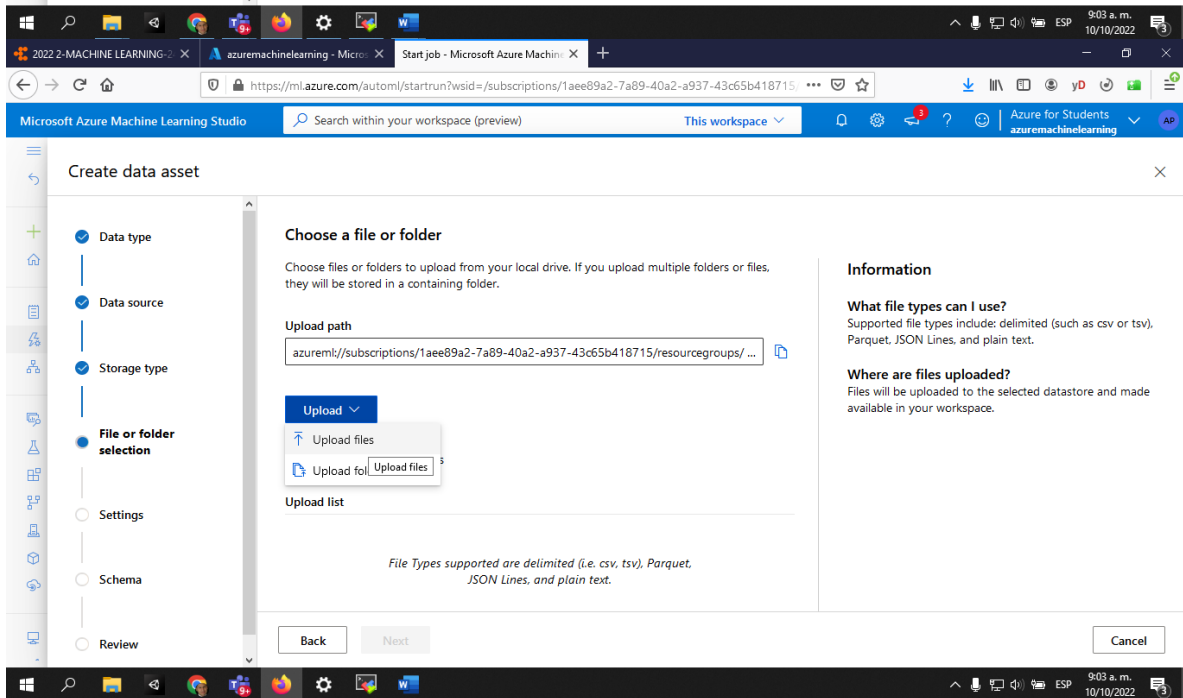
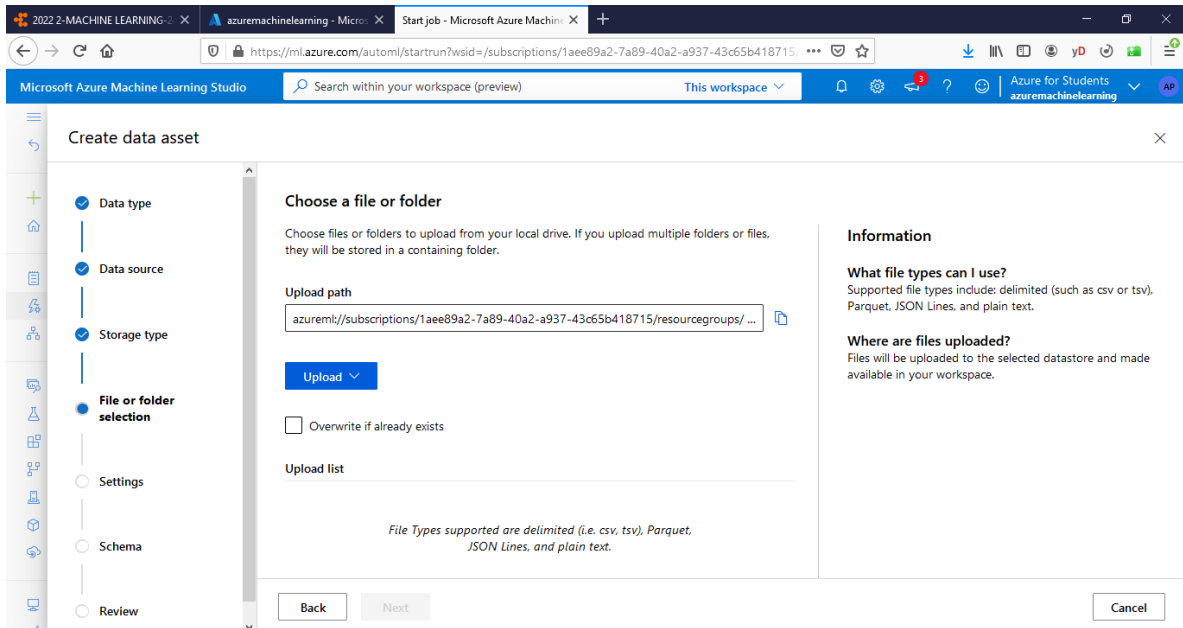
##### When should I use Folder type?

The Folder type has all the same capabilities and use cases as the File type, but is used when specifying a folder location. In the Azure Machine Learning CLI v2 or Python SDK v2, this data type is called `uri_folder`. [Learn more](#)











2022 2-MACHINE LEARNING-2 x azuremachinelearning - Micro x Start job - Microsoft Azure Machine Learning x

https://ml.azure.com/automl/startrun?wsid=/subscriptions/1aee89a2-7a89-40a2-a937-43c65b418715

Microsoft Azure Machine Learning Studio Search within your workspace (preview) This workspace Azure for Students azuremachinelearning

### Create data asset

- Data type
- Data source
- Storage type
- File or folder selection
- Settings
- Schema
- Review

#### Review

Review the settings for your data asset and make any changes as needed.

##### Data type

Name: googlereviews

Description: --

Type: tabular

##### Data source

Type: Local

##### File selection

Upload path: azureml:/subscriptions/1aee89a2-7a89-40a2-a937-43c65b418715/...

##### Schema

App	String
Category	String
Rating	Decimal
Reviews	Integer
Size	String

(showing 5 of 14 columns)

Back

Create

Cancel

2022 2-MACHINE LEARNING-2 x azuremachinelearning - Micro x Start job - Microsoft Azure Machine Learning x

https://ml.azure.com/automl/startrun?wsid=/subscriptions/1aee89a2-7a89-40a2-a937-43c65b418715

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UCompensar > azuremachinelearning > Automated ML > Start job

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Success: googlereviews data asset created successfully. It may take a few seconds for lists to be updated. [Click here to go to this data asset](#)

+ Create Refresh

Show supported data assets only

Search

All filters Clear all

Page size: 25

Name	Dataset type	Created on ↓	Modified on
------	--------------	--------------	-------------

Back

Next

Cancel

2022 2-MACHINE LEARNING-2 X azuremachinelearning - Micro X Start job - Microsoft Azure Machine Learning X

https://ml.azure.com/automl/startrun?wsid=/subscriptions/1aee89a2-7a89-40a2-a937-43c65b418715

Microsoft Azure Machine Learning Studio Search within your workspace (preview) This workspace Azure for Students azuremachinelearning

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Success: googlereviews data asset created successfully. It may take a few seconds for lists to be updated. [Click here to go to this data asset](#)

+ Create Refresh Show supported data assets only

Search

All filters Clear all

Showing 1-1 of 1 data assets Page size: 25

Name	Dataset type	Created on ↓	Modified on
googlereviews	Tabular	Oct 10, 2022 9:04 AM	Oct 10, 2022 9:04 AM

Back Next Cancel

2022 2-MACHINE LEARNING-2 X azuremachinelearning - Micro X Start job - Microsoft Azure Machine Learning X

https://ml.azure.com/automl/startrun?wsid=/subscriptions/1aee89a2-7a89-40a2-a937-43c65b418715

Microsoft Azure Machine Learning Studio Search within your workspace (preview) This workspace Azure for Students azuremachinelearning

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Success: googlereviews data asset created successfully. It may take a few seconds for lists to be updated. [Click here to go to this data asset](#)

+ Create Refresh Show supported data assets only

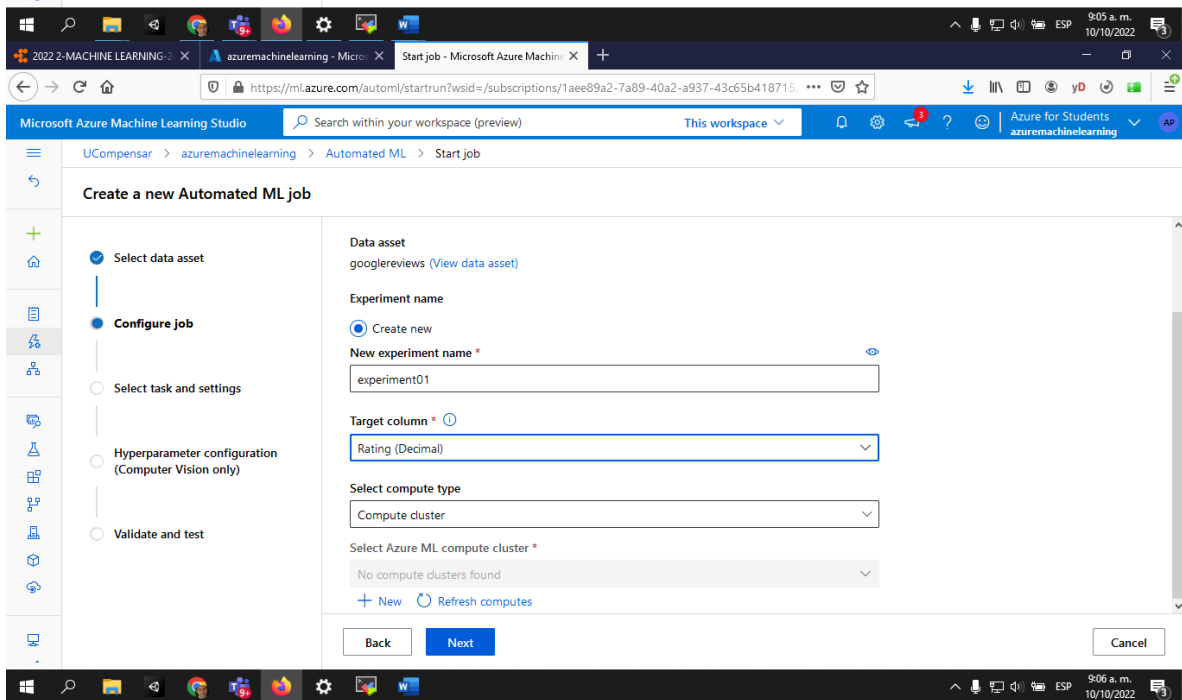
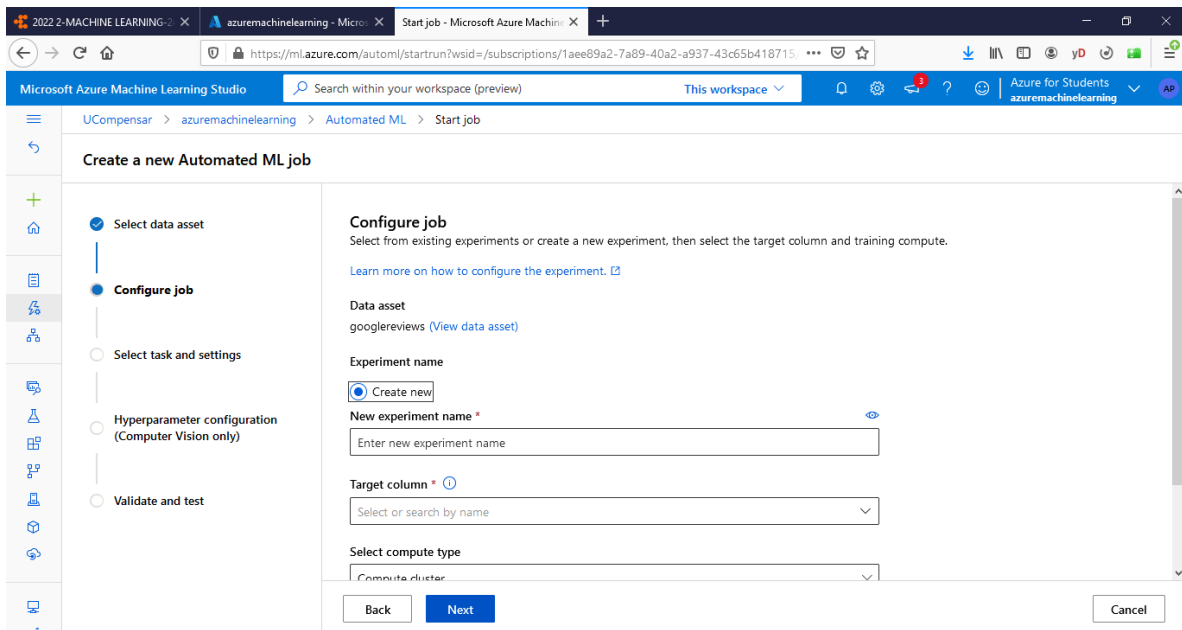
Search

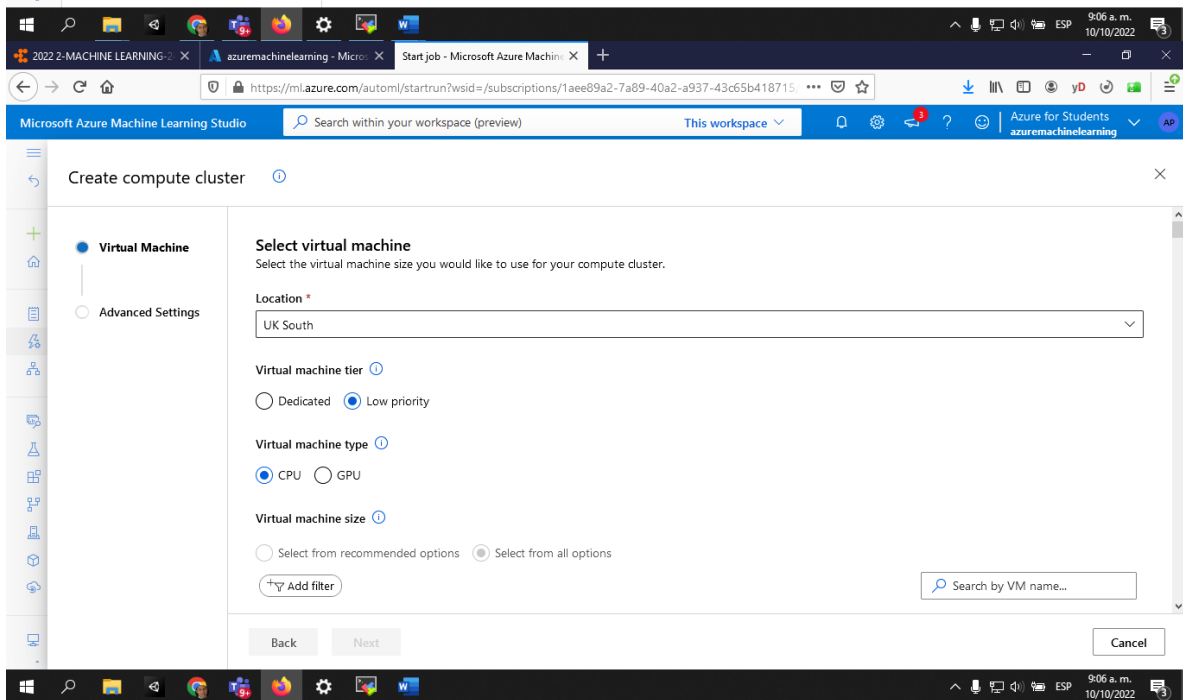
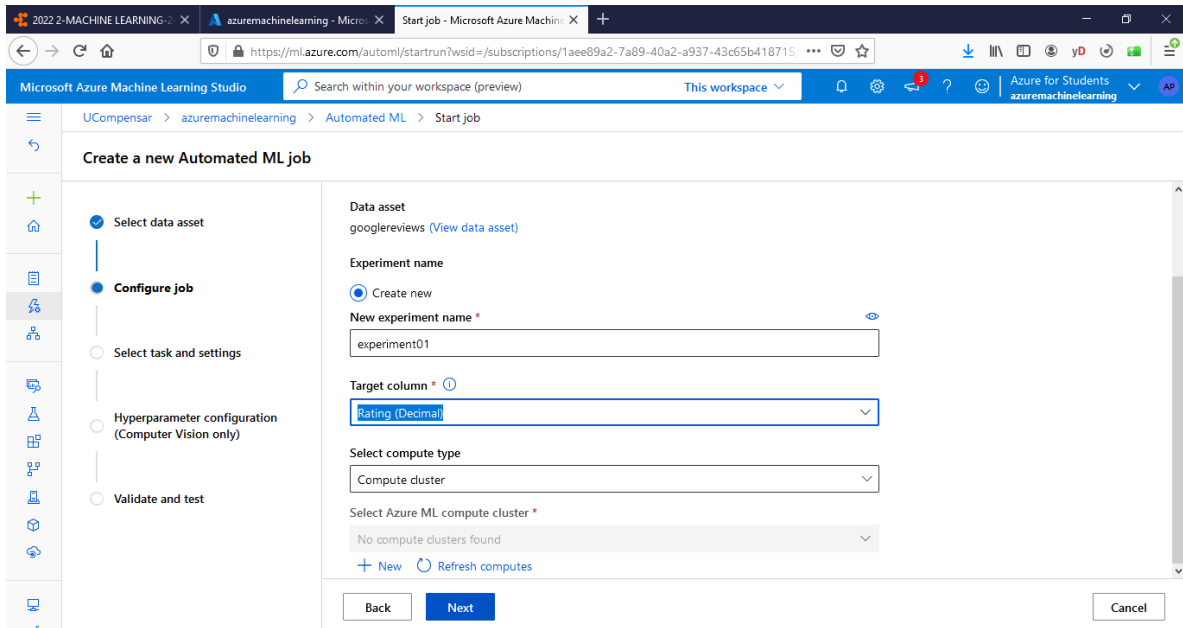
All filters Clear all

Showing 1-1 of 1 data assets Page size: 25

Name	Dataset type	Created on ↓	Modified on
<input checked="" type="radio"/> googlereviews	Tabular	Oct 10, 2022 9:04 AM	Oct 10, 2022 9:04 AM

Back Next Cancel





2022 2-MACHINE LEARNING-2 X azuremachinelearning - Micro X Start job - Microsoft Azure Machine Learning X

https://ml.azure.com/automl/startrun?wsid=/subscriptions/1aee89a2-7a89-40a2-a937-43c65b418715

Microsoft Azure Machine Learning Studio Search within your workspace (preview) This workspace Azure for Students azuremachinelearning

### Create compute instance

**Required Settings**

**Configure required settings**  
Select the name and virtual machine size you would like to use for your compute instance. Please note that a compute instance can not be shared. It can only be used by a single assigned user. By default, it will be assigned to the creator and you can change this to a different user in the advanced settings section.

Compute name \*

Location

Virtual machine type ☒ CPU ☐ GPU

Virtual machine size ☒ Select from recommended options ☐ Select from all options

Create Back Next: Advanced Settings Cancel

2022 2-MACHINE LEARNING-2 X azuremachinelearning - Micro X Start job - Microsoft Azure Machine Learning X

https://ml.azure.com/automl/startrun?wsid=/subscriptions/1aee89a2-7a89-40a2-a937-43c65b418715

Microsoft Azure Machine Learning Studio Search within your workspace (preview) This workspace Azure for Students azuremachinelearning

### Create compute instance

**Required Settings**

**Virtual machine type** ☒ CPU ☐ GPU

**Virtual machine size** ☒ Select from recommended options ☐ Select from all options

	Name ↑	Category	Workload types	Available qu...	Cost
<input type="radio"/>	Standard_DS11_v2 2 cores, 14GB RAM, 28GB storage	Memory optimized	Development on Notebooks (or other IDE) and light weight testing	6 cores	\$0.23/...
<input type="radio"/>	Standard_DS3_v2 4 cores, 14GB RAM, 28GB storage	General purpose	Classical ML model training on small datasets	6 cores	\$0.35/...
<input type="radio"/>	Standard_DS12_v2 4 cores, 28GB RAM, 56GB storage	Memory optimized	Data manipulation and training on medium-sized datasets (1-10GB)	6 cores	\$0.47/...
<input checked="" type="radio"/>	Standard_F4s_v2 4 cores, 8GB RAM, 32GB storage	Compute optimiz...	Data manipulation and training on large datasets (>10 GB)	16 cores	\$0.20/...

Create Back Next: Advanced Settings Cancel

9:11 a.m. 10/10/2022



2022 2-MACHINE LEARNING-2 x azuremachinelearning - Micro x Start job - Microsoft Azure Machine Learning x

https://ml.azure.com/automl/startrun?wsid=/subscriptions/1aee89a2-7a89-40a2-a937-43c65b418715

Microsoft Azure Machine Learning Studio Search within your workspace (preview) This workspace Azure for Students azuremachinelearning

### Create compute instance

Required Settings

Advanced Settings

Standard\_F4s\_v2 Compute optimized 4

Enable idle shutdown

Startup and shutdown schedule

Add schedule

Enable SSH access

Enable virtual network

Assign to another user

Provision with setup script

Assign a managed identity

Create Back Next Download a template for automation Cancel

Manage preview features

If you change your mind, you can change preview feature settings any time.

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https://ml.azure.com/automl/startrun?wsid=/subscriptions/1aee89a2-7a89-40a2-a937-43c65b418715

Microsoft Azure Machine Learning Studio Search within your workspace (preview) This workspace Azure for Students azuremachinelearning

### Create compute instance

Required Settings

Advanced Settings

#### Configure required settings

Select the name and virtual machine size you would like to use for your compute instance. It cannot be shared. It can only be used by a single assigned user. By default, it will be assigned to the creator and you can change this to a different user in the advanced settings section.

Compute name \*

aayalap1

Location

uksouth

Virtual machine type

CPU

GPU

Virtual machine size

Select from recommended options

Select from all options

Create Back Next: Advanced Settings Cancel

Manage preview features

If you change your mind, you can change preview feature settings any time.

2022 2-MACHINE LEARNING-2

azuremachinelearning - Micro

Start job - Microsoft Azure Machin

https://ml.azure.com/automl/startrun?wsid=/subscriptions/1aee89a2-7a89-40a2-a937-43c65b418715

Microsoft Azure Machine Learning Studio

Search within your workspace (preview)

This workspace

Azure for Students  
azuremachinelearning

Create compute instance

Required Settings

Advanced Settings

Configure required settings

Select the name and virtual machine size you would like to use for your compute instance. Please note that a compute instance can not be shared. It can only be used by a single assigned user. By default, it will be assigned to the creator and you can change this to a different user in the advanced settings section.

Compute name \*

aayalap1

Location

uksouth

Creating...

Virtual machine type

CPU

GPU

Virtual machine size

Select from recommended options

Select from all options

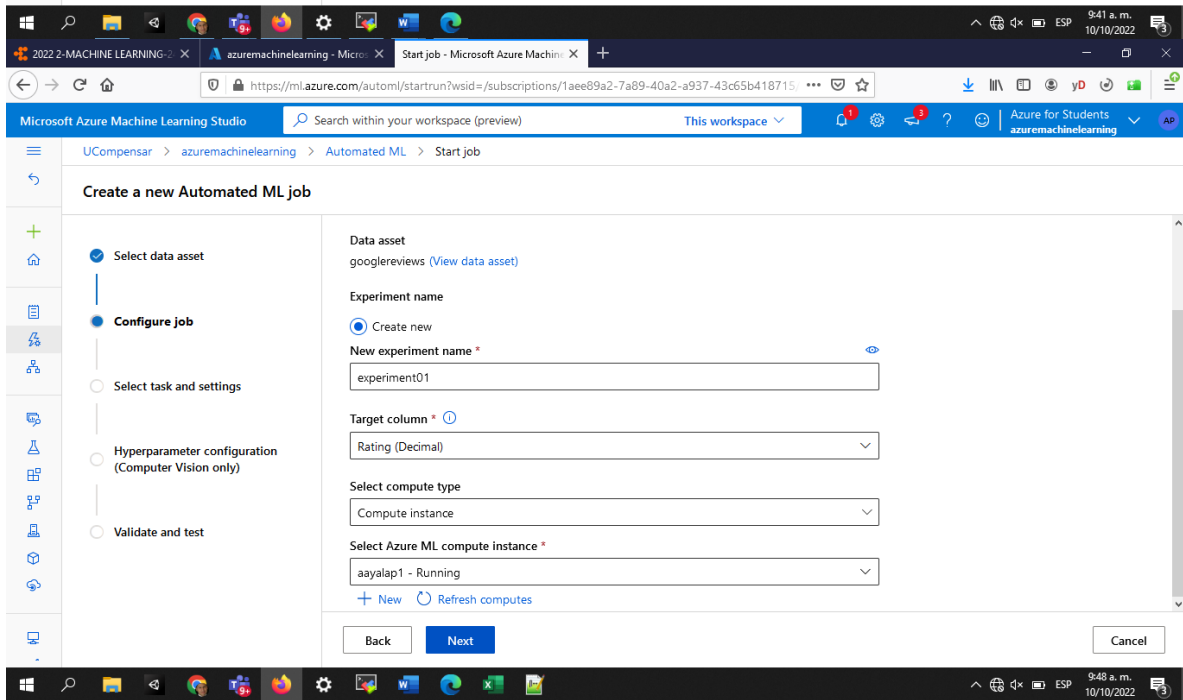
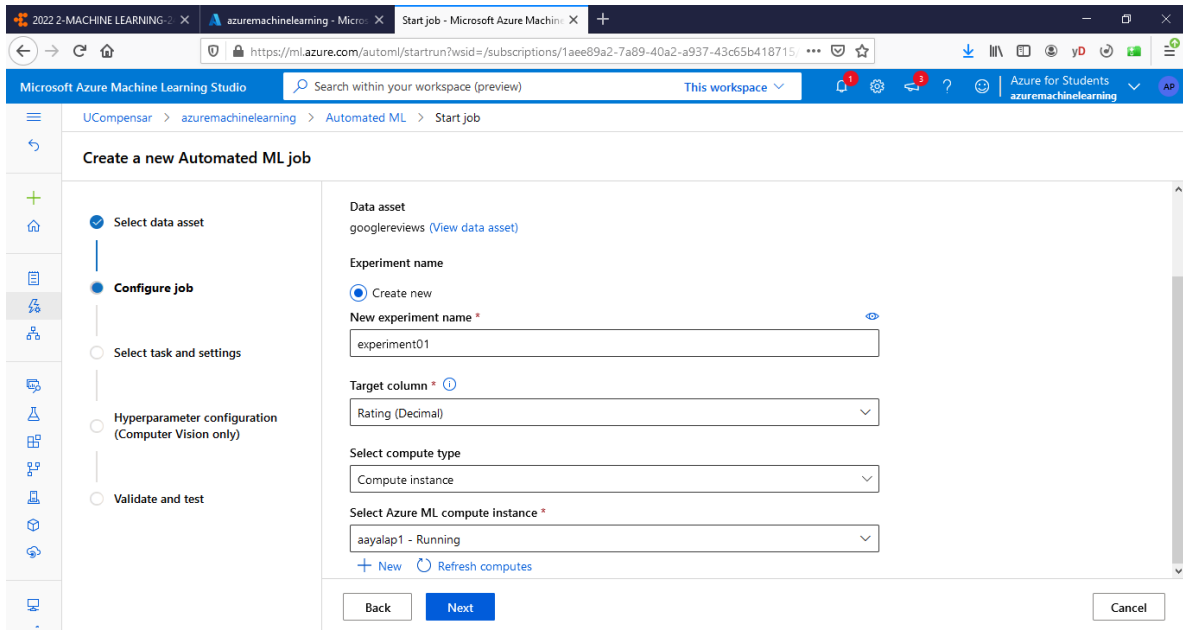
Create

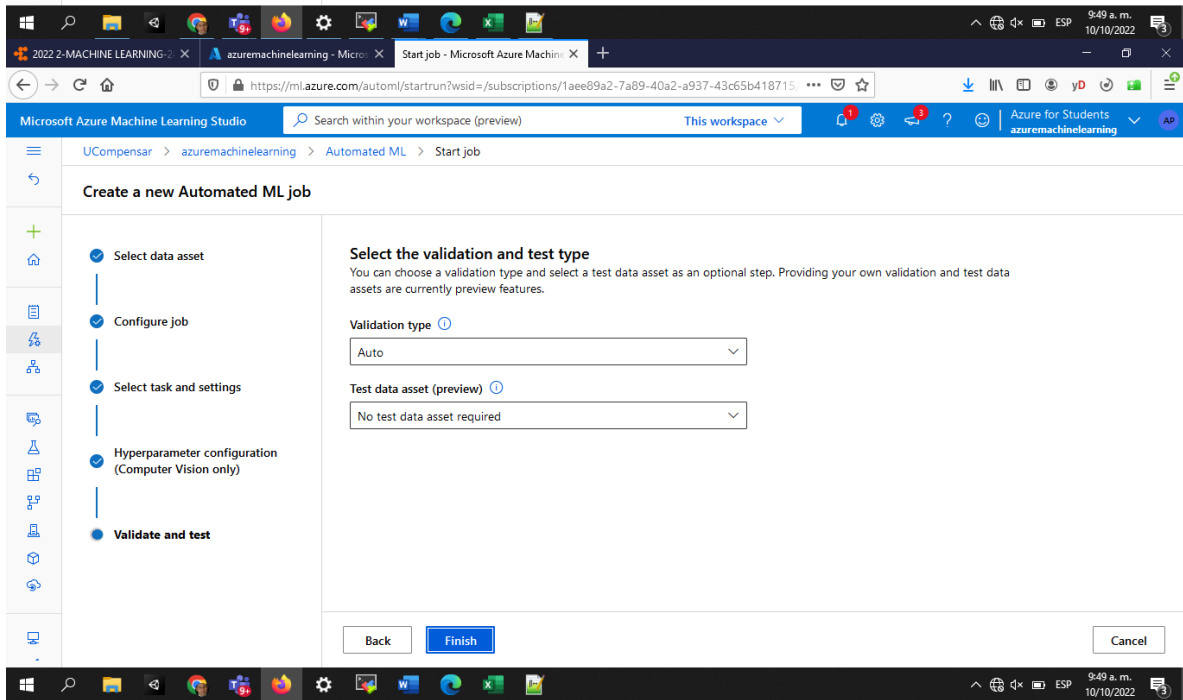
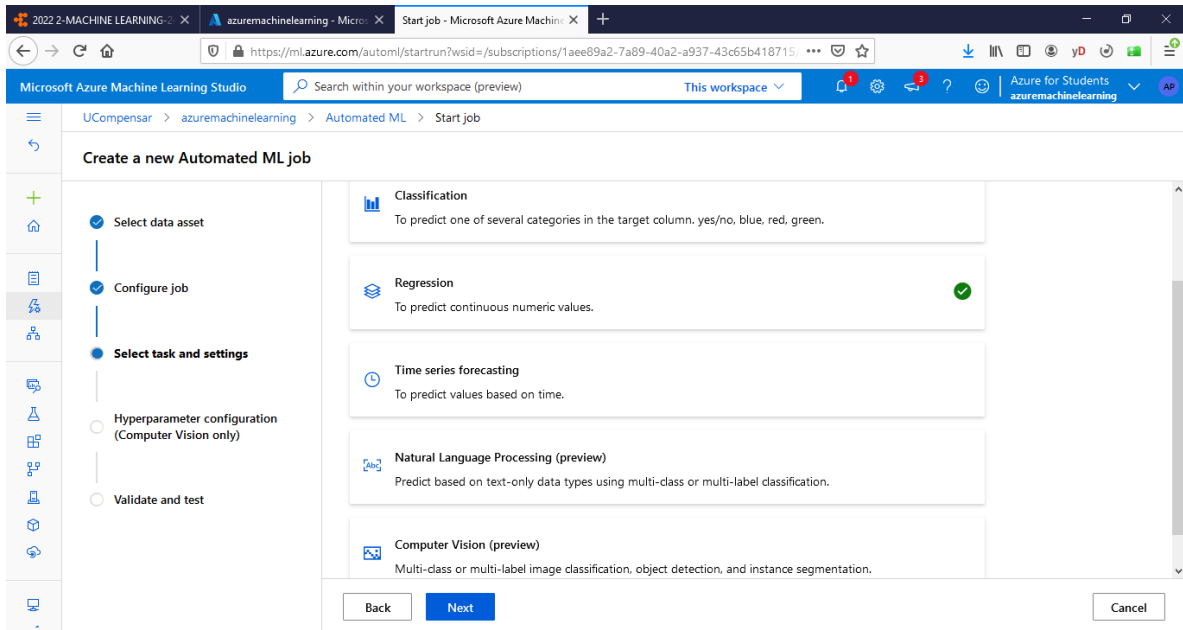
Back

Next: Advanced Settings

Cancel

9:16 a.m.  
10/10/2022





2022 2-MACHINE LEARNING-2 x azuremachinelearning - Micro x strong\_bulb\_vjf55sbw - Microsoft x

https://ml.azure.com/automl/runs/AutoML\_889cc7e4-d3a4-4314-b781-6df1384fde86?wsid=/subscriptions/...

Microsoft Azure Machine Learning Studio Search within your workspace (preview) This workspace Azure for Students azuremachinelearning

UCompensar > azuremachinelearning > Automated ML > experiment01 > strong\_bulb\_vjf55sbw

**strong\_bulb\_vjf55sbw** Not started

Overview Data guardrails Models Outputs + logs Child jobs

Refresh Edit and submit (preview) Register model Cancel Delete Compare (preview)

**Properties**

Status Not started

Created on Oct 10, 2022 9:49 AM

Start time --

Compute target aayalap1

Name AutoML\_889cc7e4-d3a4-4314-b781-6df1384fde86

Script name --

**Inputs**

Input name: training\_data  
Dataset: googlereviews:1

**Best model summary**

No data

2022 2-MACHINE LEARNING-2 x azuremachinelearning - Micro x strong\_bulb\_vjf55sbw - Microsoft x

https://ml.azure.com/automl/runs/AutoML\_889cc7e4-d3a4-4314-b781-6df1384fde86?wsid=/subscriptions/...

Microsoft Azure Machine Learning Studio Search within your workspace (preview) This workspace Azure for Students azuremachinelearning

UCompensar > azuremachinelearning > Automated ML > experiment01 > strong\_bulb\_vjf55sbw

**strong\_bulb\_vjf55sbw** Running

Overview Data guardrails Models Outputs + logs Child jobs

Refresh Edit and submit (preview) Register model Cancel Delete Compare (preview)

**Properties**

Status Running

Model training

Created on Oct 10, 2022 9:49 AM

Start time Oct 10, 2022 9:49 AM

Compute target aayalap1

Name AutoML\_889cc7e4-d3a4-4314-b781-6df1384fde86

**Inputs**

Input name: training\_data  
Dataset: googlereviews:1

**Best model summary**

No data

Microsoft Azure Machine Learning Studio

strong\_bulb\_vjf55sbw

strong\_bulb\_vjf55sbw Completed

Overview Data guardrails Models Outputs + logs Child jobs

Refresh Edit and submit (preview) Register model Cancel Delete Compare (preview)

**Properties**

Status Completed [Properties](#)

Warning: No scores improved over last 20 iterations, so experiment stopped early. This early stopping behavior can be disabled by setting enable\_early\_stopping = False in AutoMLConfig for notebook/python SDK runs.

[See more details](#)

Created on  
Oct 10, 2022 9:49 AM

Start time  
Oct 10, 2022 9:49 AM

Duration  
3h 50m 28.44s

**Inputs**

Input name: training\_data  
Dataset: [googlereviews:1](#)

**Outputs**

Output name: best\_model  
Model: [azureml\\_AutoML\\_889cc7e4-d3a4-4314-b781-6df1384fde86\\_41\\_output\\_mlflow\\_log\\_model\\_-2036930444:1](#)

**Best model summary**

Microsoft Azure Machine Learning Studio

strong\_bulb\_vjf55sbw

strong\_bulb\_vjf55sbw Completed

Overview Data guardrails **Models** Outputs + logs Child jobs

Refresh Edit and submit (preview) Register model Cancel Delete Deploy Download Explain model View generated code

Search

Created on All filters Clear all

Showing 1-25 of 42 models

Page size: 25

Algorithm name	Explained	Normalized ro...	Sampling	Created on	Duration
<a href="#">StackEnsemble</a>	<a href="#">View explanation</a>	0.02681	100.00 %	Oct 10, 2022 1:39 PM	1m 0s
<a href="#">VotingEnsemble</a>		0.02683	100.00 %	Oct 10, 2022 1:38 PM	58s
<a href="#">MaxAbsScaler, LightGBM</a>		0.02740	100.00 %	Oct 10, 2022 9:52 AM	29s
<a href="#">MaxAbsScaler, RandomForest</a>		0.02763	100.00 %	Oct 10, 2022 1:20 PM	1m 23s
<a href="#">StandardScaler, MaxAbsScaler, RandomForest</a>		0.02766	100.00 %	Oct 10, 2022 9:53 AM	2m 0s

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2022 2-MACHINE LEARNING-2

azuremachinelearning - Micro

musing\_kitchen\_ch2dctf9 - Micro

https://ml.azure.com/experiments/d/39548cd2-4d87-49d5-8c03-17a73bdb610e/runs/AutoML\_889cc/

Microsoft Azure Machine Learning Studio

Search within your workspace (preview)

This workspace

Azure for Students

azuremachinelearning

AP

...

azuremachinelearning

Jobs

experiment01

strong\_bulb\_vjf55sbw

musing\_kitchen\_ch2dctf9

This job is using the new compute runtime to improve performance. You can expect to see a different log structure along with the new runtime.

musing\_kitchen\_ch2dctf9

Completed

Overview

Model

Explanations (preview)

Metrics

Data transformation (preview)

Test results (preview)

Outputs + logs

Images

Child jobs

Code

Monitoring (preview)

Created by

Alfonso Ayala Paloma

Job type

Command

Experiment

experiment01

Environment

AzureML-AutoML:128

Arguments

None

See all properties

Raw JSON

See YAML job definition

Metrics

Explained variance

0.19245

Mean absolute error

0.30513

Mean absolute percentage error

8.6534

Median absolute error

0.20215

Normalized mean absolute error

0.016952

Normalized median absolute error

0.011230

View all other metrics

3:11 p.m.

10/10/2022