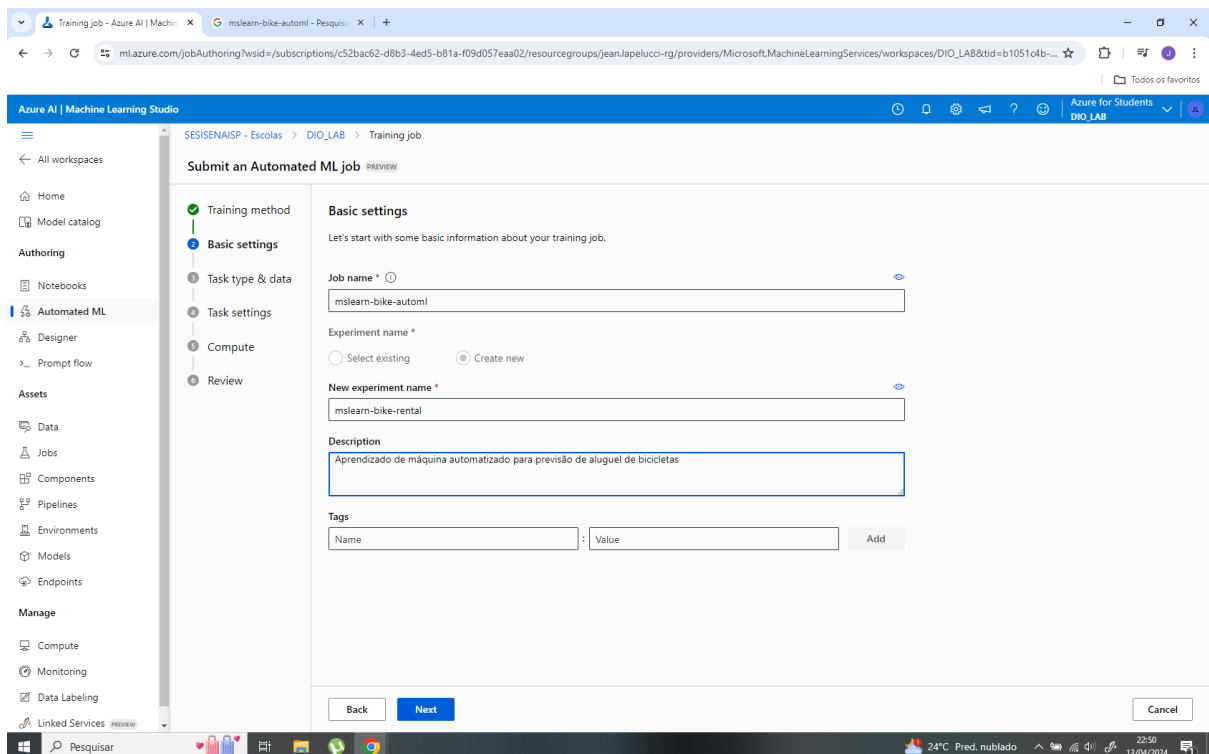
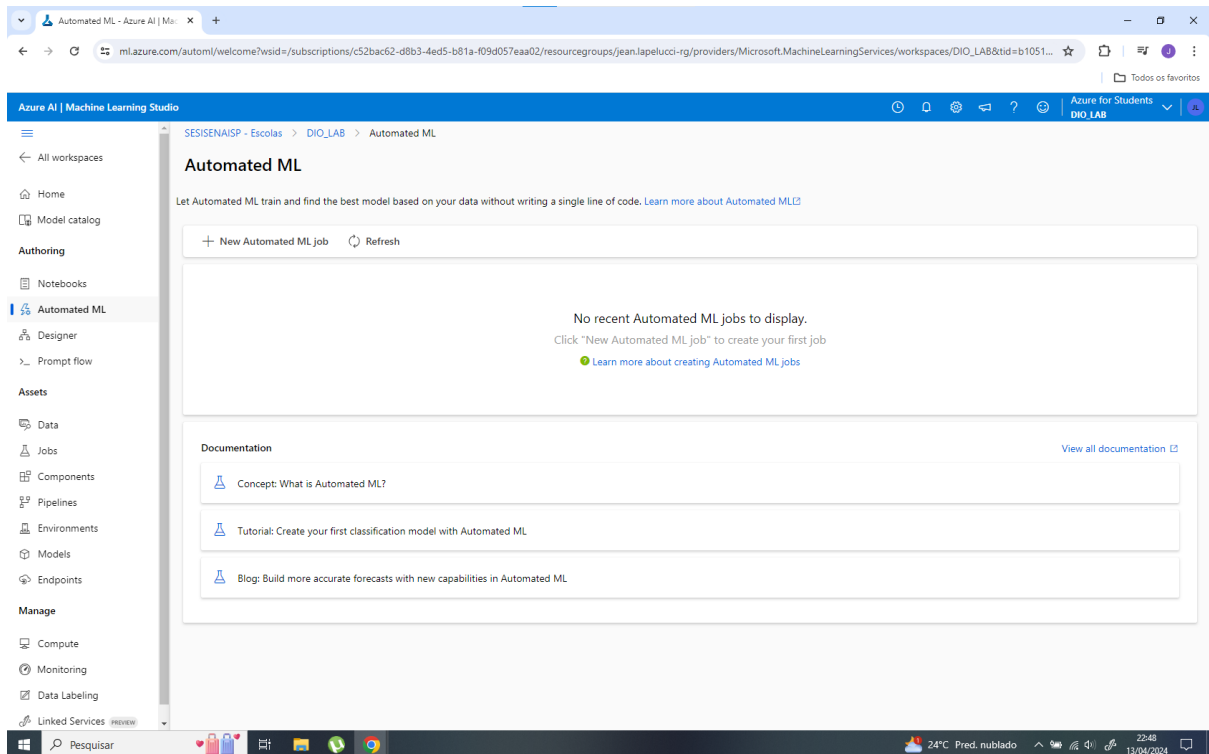


# Atividade 1



Training job - Azure AI | Machine Learning Studio

mslearn-bike-automi - Pesquisar

ml.azure.com/jobAuthoring?wsid=/subscriptions/c52bac62-d8b3-4ed5-b81a-f09d057eaa02/resourcegroups/jean.lapelucci-rg/providers/Microsoft.MachineLearningServices/workspaces/DIO\_LAB&tid=b1051c4b...

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Create data asset

1 Data type

2 Data source

Set the name and type for your data asset

Name \*

alugueldebicicletas

Description

dados histórico de aluguel de bicicletas

Type \*

Tabular

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 about the uri\\_folder type](#)

When should I use Table type?

The Table type is most useful for advanced scenarios where you might need to abstract the schema definition for easier sharing. You should use it when you have complex transformations and schema you want to capture in a reusable asset. For simpler tabular data, the File and Folder types are recommended. If you choose the Table type, in the Azure Machine Learning CLI v2 or Python SDK v2, this data type is called mitable. [Learn more about the mitable type](#)

Back Next Cancel

Training job - Azure AI | Machine Learning Studio

mslearn-bike-automi - Pesquisar

ml.azure.com/jobAuthoring?wsid=/subscriptions/c52bac62-d8b3-4ed5-b81a-f09d057eaa02/resourcegroups/jean.lapelucci-rg/providers/Microsoft.MachineLearningServices/workspaces/DIO\_LAB&tid=b1051c4b...

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Create data asset

1 Data type

2 Data source

3 Web URL

4 Settings

5 Schema

6 Review

Choose a source for your data asset

Choose the data source you want to create your asset from. A data source can be from a local storage location on your computer, from an attached datastore, from Azure storage, or from a publicly available web location.

From Azure storage

Create a data asset from registered data storage services including Azure Blob Storage, Azure file share, and Azure Data Lake.

From local files

Create a data asset by uploading files from your local drive.

From SQL databases

Create a dataset from Azure SQL database and Azure PostgreSQL database.

From web files

Create a data asset from a single file located at a public web URL.

From Azure Open Datasets

Create a dataset with one-click from pre-made data sets. These data sets are created by the general public and published as Azure Open Datasets

Back Next Cancel

Training job - Azure AI | Machi... x +

ml.azure.com/jobAuthoring?wsid=/subscriptions/c52bac62-d8b3-4ed5-b81a-f09d057eaa02/resourcegroups/jeanlapelucci-rg/providers/Microsoft.MachineLearningServices/workspaces/DIO\_LAB&tid=b1051c4b-...

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### Create data asset

- Data type
- Data source
- Web URL
- Settings
- Schema
- Review

#### Enter a web URL

Specify the URL of a public web page you want your data retrieved from.

Web URL \*

https://aka.ms/bike-rentals

#### Skip data validation

If you choose to skip validation, we will not validate your data path, or try to access your data for preview and schema.

☐ Skip data validation

Back Next Cancel

Training job - Azure AI | Machi... x +

ml.azure.com/jobAuthoring?wsid=/subscriptions/c52bac62-d8b3-4ed5-b81a-f09d057eaa02/resourcegroups/jeanlapelucci-rg/providers/Microsoft.MachineLearningServices/workspaces/DIO\_LAB&tid=b1051c4b-...

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### Create data asset

- Data type
- Data source
- Web URL
- Settings
- Schema
- Review

#### Settings

These settings determine how the data is parsed. The initial settings are automatically detected; you can change them as needed to reparse the data.

File format	Delimiter	Example	Encoding
Delimited	Comma	Field1.Field2.Field3	UTF-8

Column headers: Only first file has headers

Skip rows: None

☐ Dataset contains multi-line data

Note: Processing tabular files with multi-line data is slower because multiple CPU cores cannot be used to ingest the data in parallel. Checking this option may result in slower processing times.

#### Data preview

day	mnth	year	season	holiday	weekday	working...	weathersit	temp	atemp	hum	windspeed	rentals
1	1	2011	1	0	6	0	2	0.344	0.364	0.806	0.16	331
2	1	2011	1	0	0	0	2	0.363	0.354	0.696	0.249	131
3	1	2011	1	0	1	1	1	0.196	0.189	0.437	0.248	120
4	1	2011	1	0	2	1	1	0.2	0.212	0.59	0.16	108
5	1	2011	1	0	3	1	1	0.227	0.229	0.437	0.187	82
6	1	2011	1	0	4	1	1	0.204	0.233	0.518	0.09	88
7	1	2011	1	0	5	1	2	0.197	0.209	0.499	0.169	148
8	1	2011	1	0	6	0	2	0.165	0.162	0.536	0.267	68
9	1	2011	1	0	0	0	1	0.138	0.116	0.434	0.362	54

Back Next Review Cancel

Training job - Azure AI | Machine Learning Studio

ml.azure.com/jobAuthoring/hsid=/subscriptions/c52bac62-d8b3-4ed5-b81a-f09d057eaa02/resourcegroups/jeanlapelucci-rg/providers/Microsoft.MachineLearningServices/workspaces/DIO\_LAB&tid=b1051c4b-...

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DIO LAB

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Create data asset

Data type

Data source

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Settings

Schema

Review

Schema

Column types are auto-detected based on the initial subset of the data and can be updated here. Values not aligning with the specified column type will fail conversion and would be either null-filled or replaced with error value. Any conversions preview errors are non-blocking and you can proceed.

Search column name

Include	Column name	Type	Example values	Date format	Properties
<input type="checkbox"/>	Path	String		Not applicable to selected type	Not applicable t...
<input checked="" type="checkbox"/>	day	Integer	1, 2, 3	Not applicable to selected type	Not applicable t...
<input checked="" type="checkbox"/>	month	Integer	1, 1, 1	Not applicable to selected type	Not applicable t...
<input checked="" type="checkbox"/>	year	Integer	2011, 2011, 2011	Not applicable to selected type	Not applicable t...
<input checked="" type="checkbox"/>	season	Integer	1, 1, 1	Not applicable to selected type	Not applicable t...
<input checked="" type="checkbox"/>	holiday	Integer	0, 0, 0	Not applicable to selected type	Not applicable t...
<input checked="" type="checkbox"/>	weekday	Integer	6, 0, 1	Not applicable to selected type	Not applicable t...
<input checked="" type="checkbox"/>	workingday	Integer	0, 0, 1	Not applicable to selected type	Not applicable t...
<input checked="" type="checkbox"/>	weathersit	Integer	2, 2, 1	Not applicable to selected type	Not applicable t...

BackNextCancel

Training job - Azure AI | Machine Learning Studio

ml.azure.com/jobAuthoring/hsid=/subscriptions/c52bac62-d8b3-4ed5-b81a-f09d057eaa02/resourcegroups/jeanlapelucci-rg/providers/Microsoft.MachineLearningServices/workspaces/DIO\_LAB&tid=b1051c4b-...

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Data source

Type

Web URL

Web URL

https://aka.ms/bike-rentals

Skip data validation

false

Settings

Delimiter

Comma

Encoding

UTF-8

File format

Delimited

Column headers

Only first file has headers

Number of rows to skip

None

Dataset contains multi-line data

false

BackCreateCancel

Training job - Azure AI | Machine Learning Studio

SESISENAISP - Escolas > DIO\_LAB > Training job

Submit an Automated ML job PREVIEW

Training method  
Basic settings  
**Task type & data**  
Task settings  
Compute  
Review

**Task type & data**

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

Choose the type of task that you would like your model to perform and the data to use for training. [Learn more](#)

Select task type \*

Regression

Select data

Make sure your data is preprocessed into a supported format.

+ Create Refresh Show supported data assets only Reset view

Search

Name	Type	Created on	Modified on
alugueldebicicletas	Table	Apr 13, 2024 10:57 PM	Apr 13, 2024 10:57 PM

Page 1 of 1 25/Page

Back Next Cancel

Training job - Azure AI | Machine Learning Studio

SESISENAISP - Escolas > DIO\_LAB > Training job

Submit an Automated ML job PREVIEW

Training method  
Basic settings  
Task type & data  
**Task settings**  
Compute  
Review

3

Max concurrent trials

3

Max nodes

3

Metric score threshold

0.085

Experiment timeout (minutes)

15

Iteration timeout (minutes)

15

☒ Enable early termination

**Validate and test**

You can choose a validation type and select test data as an optional step.

Validation type

Train-validation split

Percentage validation of data \*

10

Automated ML recommends that between 10 and 30 percent of data is held out for validation

Back Next Cancel

Training job - Azure AI | Machine Learning Studio

ml.azure.com/jobAuthoring?wsid=/subscriptions/c52bac62-d8b3-4ed5-b81a-f09d057eaa02/resourcegroups/jean.lapelucci-rg/providers/Microsoft.MachineLearningServices/workspaces/DIO\_LAB&tid=b1051c4b-...

SESISENAISP - Escolas > DIO\_LAB > Training job

Submit an Automated ML job PREVIEW

Training method  
Basic settings  
Task type & data  
Task settings  
**Compute**  
Review

**Compute**

Select and configure the compute resource for executing your training job.

Select compute type  
Serverless

Virtual machine type  
☒ CPU ☐ GPU

Virtual machine tier  
☒ Dedicated ☐ Low priority

Virtual machine size  
Standard\_DS3\_v2 (4 core(s), 14GB RAM, 28GB storage, \$0.34/hr)

Number of instances  
1

Back Next Cancel

Training job - Azure AI | Machine Learning Studio

ml.azure.com/jobAuthoring?wsid=/subscriptions/c52bac62-d8b3-4ed5-b81a-f09d057eaa02/resourcegroups/jean.lapelucci-rg/providers/Microsoft.MachineLearningServices/workspaces/DIO\_LAB&tid=b1051c4b-...

SESISENAISP - Escolas > DIO\_LAB > Training job

Submit an Automated ML job PREVIEW

Training method  
Basic settings  
Task type & data  
Task settings  
Compute  
**Review**

**Review**

Review or make changes to your job before submission.

**Basic settings**

Name  
mslearn-bike-automl

Experiment name  
mslearn-bike-rental

Description  
Aprendizado de máquina automatizado para previsão de aluguel de bicicletas

Timeout (hours)  
--

Tags  
--

**Task type & data**

Task type  
Regression

Data  
alugueldebicicletas

**Task settings**

Target column  
rentals

Limits  
Max trials: 3  
Max concurrent trials: 3  
Max nodes: 3  
Metric score threshold: 0.085  
Experiment timeout (minutes): 15  
Iteration timeout (minutes): 15

Validate type  
Train-validation split

Percentage validation of data  
10

Back Submit training job Cancel

mslearn-bike-rental - Azure AI | x +

ml.azure.com/experiments/id/f6f8c100-c5f1-499e-9b94-ba1192fc1d3e?wsid=/subscriptions/c52bac62-d8b3-4ed5-b81a-f09d057eaa02/resourcegroups/jean.lapelucci-rg/providers/Microsoft.MachineLearningSer...

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mslearn-bike-rental

+ Create job (preview) Refresh Export Cancel Delete View options Default

Dashboard view Flat list of Jobs

Search

Only my jobs Filter Columns

Display name (1 visualized)	Parent job name	Status	Created on	Duration	Created by	Compute target	Job
mslearn-bike-automl (7)		Completed	Apr 13, 2024 11:04 PM	13m 32s	JEAN RICARDO LA...	Serverless	Aut

Page 1 of 1 25/Page

Resquisar 24°C Pred. nublado 23:19 13/04/2024

Jobs - Azure AI | Machine Learning x polite\_chayote\_wqvw03 - Az mslearn-bike-rental - Pesquisar GitHub - casjunior93/Projeto-D

ml.azure.com/runs/mslearn-bike-automl\_2?wsid=/subscriptions/c52bac62-d8b3-4ed5-b81a-f09d057eaa02/resourceGroups/jean.lapelucci-rg/providers/Microsoft.MachineLearningServices/workspaces/DIO\_LAB...

Azure AI | Machine Learning Studio

... > DIO\_LAB > Jobs > mslearn-bike-rental > mslearn-bike-automl > polite\_chayote\_wqvw03

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.

polite\_chayote\_wqvw03 Completed

Overview Model Explanations (preview) Responsible AI (preview) Metrics Data transformation (preview) Test results (preview) Outputs + logs Images Child jobs Code Monitoring

Refresh Cancel Create custom chart View as... Current view: Local Edit view

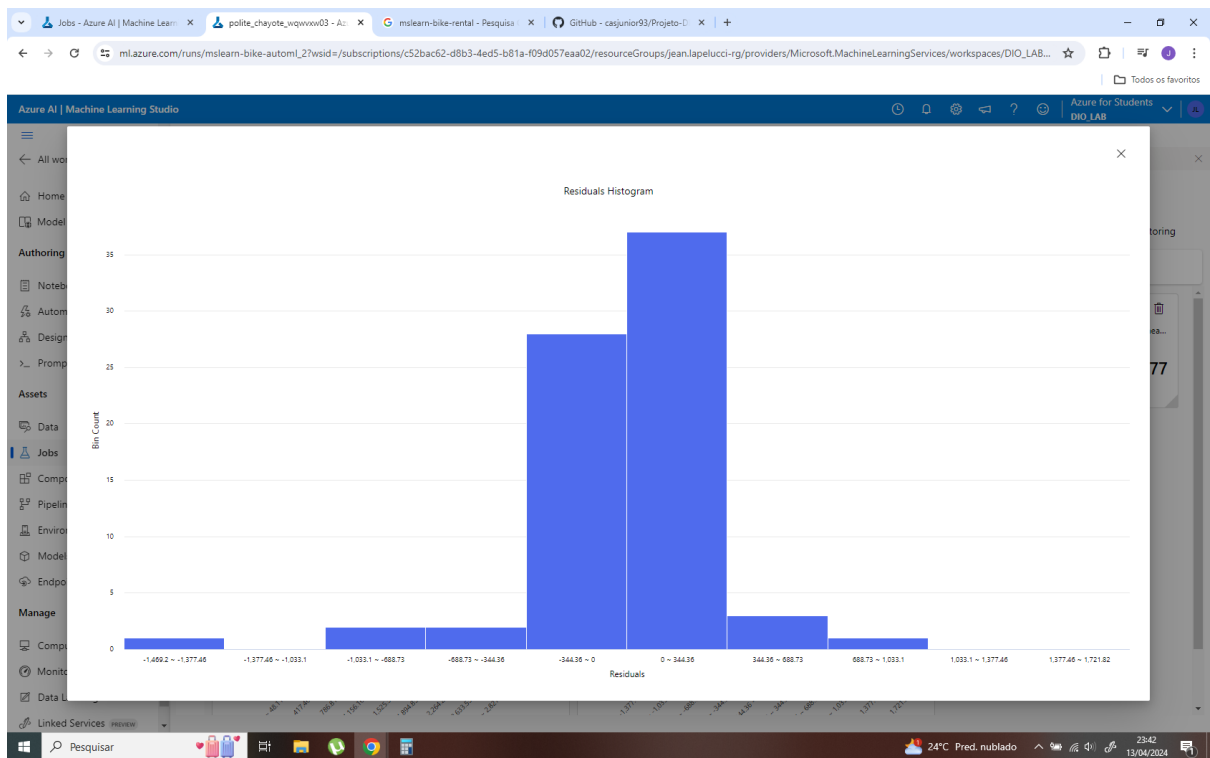
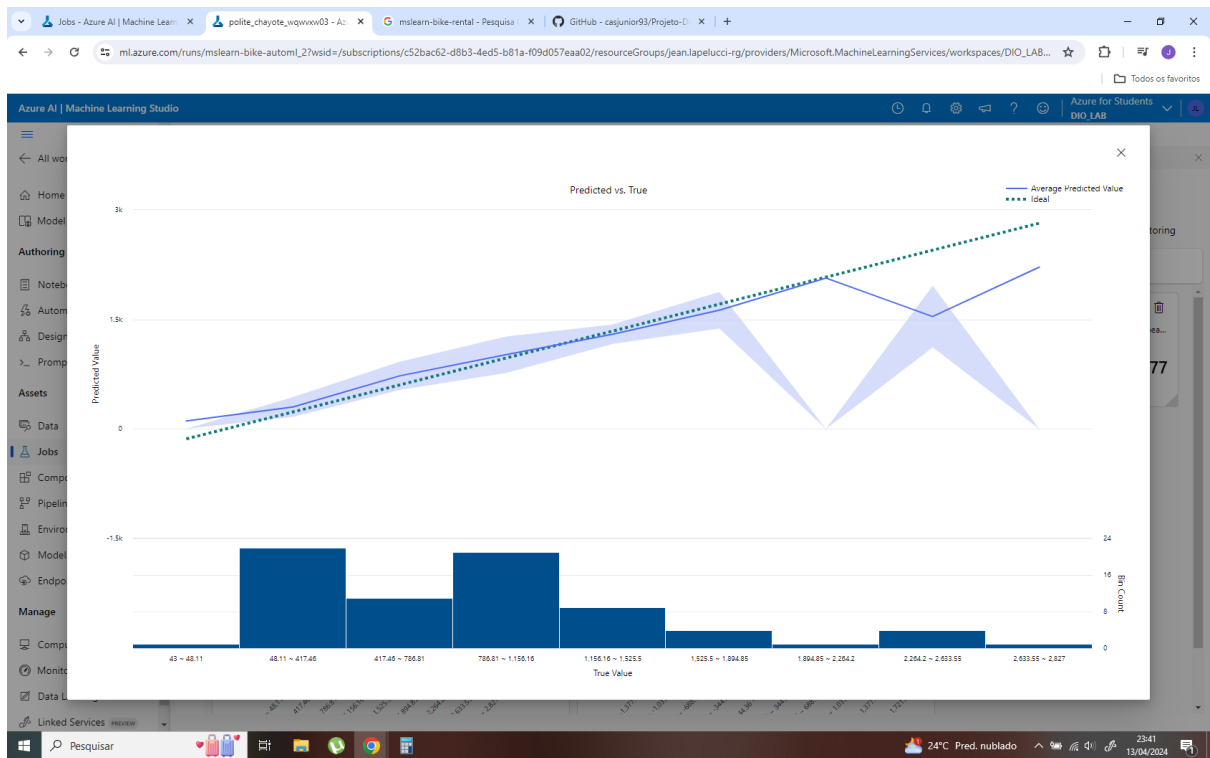
Select metrics

explained_variance	mean_absolute_error	mean_absolute_perce...	median_absolute_error	normalized_mean_abs...	normalized_median_a...	normalized_root_mea...	normalized_root_mea...
0.7911104	186.9794	37.84298	118.2679	0.05486484	0.03470303	0.08880661	0.05822677
r2_score	root_mean_squared_er...	root_mean_squared_lo...	spearman_correlation				
0.7910967	302.6529	0.4096922	0.9286703				

predicted\_true Predicted vs. True

residuals Residuals Histogram

24°C Pred. nublado 23:41 13/04/2024





Jobs - Azure AI | Machine Learning

Endpoints - Azure AI | Machine Learning

mslearn-bike-rental - Pesquisar

GitHub - casjunior93/Projeto-D

ml.azure.com/endpoints?vsid=/subscriptions/c52bac62-d8b3-4ed5-b81a-f09d057eaa02/resourceGroups/jean.lapelucci-rg/providers/Microsoft.MachineLearningServices/workspaces/DIO\_LAB&tid=b1051c4b-3b...

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Real-time endpoints

Batch endpoints

Azure OpenAI

Serverless endpoints

PREVIEW



### Azure Machine Learning endpoints allow machine learning models

Real-time endpoints are endpoints that are used for real-time inference. They contain deployments that are ready to receive requests and can send responses back in real time. [Learn more](#)

Create

[View Azure Machine Learning tutorials](#)  
[Create and use managed endpoints in the studio](#)

Deploy model:1

For the selected model, the scoring script and environment are auto generated for you. [Learn More](#)

Virtual machine \*

Standard\_D2as\_v4 2 Cores, 8 GB (RAM), 16 GB (Disk) \$0.15/hr

Instance count \*

1

Endpoint

☒ New ☐ Existing

Endpoint name \*

dio-lab-dvimd

An endpoint URL will be generated after creating an endpoint.  
<https://dio-lab-dvimd.brazilsouth.inference.ml.azure.com/score>  
[Learn how to consume](#)

Deployment name \*

model-1

Inferencing data collection

☒ Disabled

Package Model PREVIEW

☒ Disabled

Deploy Cancel More options

Pesquisar

24°C Pred. nublado 23:44 13/04/2024

## Atividade 3

The screenshot shows the Azure AI Speech Studio interface. The top bar indicates 'Speech Studio - Real-time' and the URL is 'speech.microsoft.com/portal/06cb49ea9c444ee863b671378d3852e/spechtotexttool'. The main content area is titled 'Speech Studio > Real-time speech to text'. It has two tabs: 'Try it out' and 'Next steps'. The 'Try it out' tab is active, showing a 'Choose audio files' section with a 'Drag and drop audio file(s) here or Browse files...' button and a 'Record audio with a microphone' button. Below this is an 'Audio files' list containing 'O MENINO DO MEIO DA PONTEVIDEO ...'. To the right is the 'Test results' section, which shows file details: 'File: O MENINO DO MEIO DA PONTEVIDEO', 'name: MOTIVACIONAL (SONHOS).mp3', 'Language: Portuguese (Brazil)', 'Output format: Detailed', 'Phrase list: Off', 'Custom endpoint: [None]', and 'Speaker diarization: No'. A progress bar shows '00:11' out of '02:30s'. Below the progress bar is a 'Text' section with 'JSON' output: 'Sabe essa ponte que ta no nome da história é tão grande, mas tão grande que ninguém consegue ver onde ela termina. Mãe, é verdade que quase ninguém atravessa essa ponte. É verdade, as pessoas só vão até onde tá aquela árvore e voltam.' The 'Next steps' tab is also visible, showing 'Get started' and '1. Select a Speech resource'.

The screenshot shows the Microsoft Azure portal interface. The top bar indicates 'Microsoft Azure' and the URL is 'portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fc52ba652-dfb3-4ed5-b81a-f09d057eaa02%2FresourceGroups%2FAtividadeDIO%2Fproviders%2FMicrosoft.Resources%2Fdeployments%2FTex...'. The main content area is titled 'TextAnalyticsCreate-20240423053312 | Overview'. It shows a 'Deployment' section with 'Deployment name: TextAnalyticsCreate-20240423053312', 'Subscription: Azure for Students', and 'Resource group: AtividadeDIO'. The deployment status is 'Deployment is in progress'. The 'Start time' is '23/04/2024, 05:33:52' and the 'Correlation ID' is 'd4ba3a77-9464-442e-acb8-e63123feca42'. Below this is a table with the following data:

Resource	Type	Status	Operation details
reviewlanguage	Azure AI services	Created	<a href="#">Operation details</a>

The right sidebar contains links for 'Microsoft Defender for Cloud', 'Free Microsoft tutorials', and 'Work with an expert'.

Speech Studio - Real-time sp... Azure AI | Machine Learning... TextAnalyticsCreate-2024042... Language Studio: Sentiment... language.cognitive.azure.com/tryout/sentiment

Azure AI | Language Studio

Language Studio > Sentiment and opinion mining tryout

### Analyze sentiment and opinions

Version 2023-04-01

The Text Analytics API's Sentiment Analysis feature provides sentiment labels (such as "negative", "neutral" and "positive") and confidence scores at the sentence and document-level. You can also send Opinion Mining requests using the Sentiment Analysis endpoint, which provides granular information about the opinions related to words (such as the attributes of products or services) in the text. [Learn more](#)

[View documentation](#) [View samples on GitHub](#) [Get SDK](#)

Use one of our sample texts below to try out the experience

I bought a size 5 and it fit perfectly. I found the zipper a little bit difficult to get up & down due to the side rushing. The color and material are beautiful in person. Amazingly comfortable!

Options

Enable opinion mining ☒ On

Platforms  
Docker container Cloud

Product Review (short)  
I bought a size 5 and it fit perfectly. I found the zipper a...

Service Review (long)  
Long waits...BUT FOR GOOD REASON: Some awesome Italian food...

Customer Complaint  
Email  
Hello, My name is Mateo Gomez and I visited Contoso...

Social Media Post  
I can describe my experience of this game in two words "TEC..."

Employee survey feedback  
The cafeteria food is getting worse by the day. \$15 for a pl...

194/3000

Run

Windows taskbar: Pesquisar, 17°C Limpo, 9:37 23/04/2024

Speech Studio - Real-time sp... Azure AI | Machine Learning... TextAnalyticsCreate-2024042... Language Studio: Sentiment... Language Studio: Sentiment... Quickstart: Use the Sentiment... Lorem Ipsum - All the facts... language.cognitive.azure.com/tryout/sentiment

Azure AI | Language Studio

Language Studio > Sentiment and opinion mining tryout

Result JSON

Analyzed sentiment

Document sentiment

Mixed  
Confidence: 74.00%

74.00% 1.00% 25.00%  
POSITIVE NEUTRAL NEGATIVE

Sentence 1

I bought a size 5 and it fit perfectly.

Sentence sentiment

Positive  
Confidence: 95.00%

95.00% 4.00% 1.00%  
POSITIVE NEUTRAL NEGATIVE

Sentence 2

Sentence 3

Sentence 4

Original text

I bought a size 5 and it fit perfectly. I found the zipper a little bit difficult to get up & down

Windows taskbar: Pesquisar, 17°C Limpo, 9:42 23/04/2024

Speech Studio - Real-time op...Azure AI | Machine Learning...TextAnalyticsCreate-2024042...Language Studio: Sentiment...Language Studio: Sentiment...Quickstart: Use the Sentimen...Lorem Ipsum - All the facts...language.cognitive.azure.com/tryout/sentiment

Azure AI | Language Studio

Language Studio > Sentiment and opinion mining tryout

Sentence 3

Sentence 4

Original text

I bought a size 5 and it fit perfectly. I found the zipper a little bit difficult to get up & down

due to the side rushing. The color and material are beautiful in person. Amazingly comfortable!

Next steps

Get started

Run the code

See pricing

Responsible use of AI

1. Create a Language resource

To use Analyze Sentiment, you'll need an Azure account with a paid Language or Cognitive Services resource.

Sign in with Azure or Sign up for an Azure account

2. Follow the quick start

Once you have created a Language resource, next set up the environment, install the Language SDK, and run sample code by following the steps in the quick start guide.

Open the quick startView samples on GitHub

Pesquisar

17°C Limpo

05:4423/04/2024