



Analyze Images with Azure AI Vision - Google Chrome  
labclient.labondemand.com/LabClient/58938263-f15b-442b-8dcb-170146a1cee0

mslearn-ai-vision

Start

- New File...
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- Clone Git Repository...
- Connect to...

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You have no recent folders, open a folder to start.

Walkthroughs

- Learn the Fundamentals
- Boost your Productivity
- Get Started with Python D... Updated
- Get Started with PowerShell Updated

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE .NET Install Tool

```
ms-dotnettools.csharp tried to install .NET 8.0.12-x64 but that install had already been requested. No downloads or changes were made.
ms-dotnettools.csharp requested to download the .NET Runtime.
Downloading .NET version(s) 8.0.12-x64 .....
```

Analyze Images with Azure AI Vision  
2 Hr 53 Min Remaining

Instructions Resources Help

1. Start Visual Studio Code.
2. Open the palette (SHIFT+CTRL+P) and run a **Git: Clone** command to clone the <https://github.com/MicrosoftLearning/ai-vision> repository to a local folder (it doesn't matter which folder).
3. When the repository has been cloned, open the folder in Visual Studio Code.
4. Wait while additional files are installed to support the C# code projects in the repo.

**Note:** If you are prompted to add required assets to build and debug, select **Not Now**. If you are prompted with the Message **Detected an Azure Function Project in folder**, you can safely close that message.

Provision an Azure AI Services resource

If you don't already have one in your subscription, you'll need to provision an **Azure AI Services** resource.

1. Open the Azure portal at <https://portal.azure.com>, and sign in using the Microsoft account associated with your

8% Tasks Complete

End >

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Marketplace - Microsoft Azure

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Categories

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Tile view

Azure AI services

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Azure Service

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Azure AI services

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Azure Service

Azure AI services

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2 Hr 49 Min Remaining

Instructions Resources Help

Provision an Azure AI Services resource

If you don't already have one in your subscription, you'll need to provision an **Azure AI Services** resource.

1. Open the Azure portal at <https://portal.azure.com>, and sign in using the Microsoft account associated with your Azure subscription.
2. Select **Create a resource**.
3. In the search bar, search for **Azure AI services**, select **Azure AI Services**, and create an Azure AI services multi-service account resource with the following settings:
  - Subscription: Your Azure subscription
  - Resource group: Choose or create a resource group (if you are using a restricted subscription, you may not have permission to create a new resource group - use the one provided)
  - Region: Choose from East US, West US, France Central, Korea Central, North Europe, Southeast Asia, West Europe, or East Asia\*
  - Name: Enter a unique name
  - Pricing tier: Standard S0

20% Tasks Complete

End >

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Create Azure AI services - Micro

Subscription \*

MOC Subscription-lod50079727

Resource group \*

ResourceGroup1

Create new

Azure AI services resource creation requires subscription registration, we detected that your selected subscription did not register Cognitive services resource type before, we will help you to register Cognitive services resource type when you select a subscription in subscription dropdown. Click to learn more how to check registration state for your selected subscription.

Instance Details

Region

East US

Name \*

Manasi-102-25

Location specifies the region only for included regional services. This does not specify a region for included non-regional services. Click here for more details.

Previous Next Review + create Give feedback

Analyze Images with Azure AI Vision  
2 Hr 47 Min Remaining

Instructions Resources Help

Provision an Azure AI Services resource

If you don't already have one in your subscription, you'll need to provision an **Azure AI Services** resource.

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2. Select **Create a resource**.
3. In the search bar, search for **Azure AI services**, select **Azure AI Services**, and create an Azure AI services multi-service account resource with the following settings:
  - Subscription: Your Azure subscription
  - Resource group: Choose or create a resource group (if you are using a restricted subscription, you may not have permission to create a new resource group - use the one provided)
  - Region: Choose from East US, West US, France Central, Korea Central, North Europe, Southeast Asia, West Europe, or East Asia\*
  - Name: Enter a unique name
  - Pricing tier: Standard S0

20% Tasks Complete

End >

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Create Azure AI services - Microsoft Azure

Microsoft Azure

Search resources, services, and docs (G+)

User1-47544160@LODS...  
LODS-PROD-MCA (LODSPROD.M...)

Home > Create a resource > Marketplace >

## Create Azure AI services

activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

**Basics**

Subscription	MOC Subscription-lod50079727
Resource group	ResourceGroup1
Region	East US
Name	Manasi-102-25
Pricing tier	Standard S0

**Network**

Type	All networks, including the internet, can access this resource.
------	---

**Identity**

Identity type	None
---------------	------

[Previous](#) [Next](#) [Create](#) [Give feedback](#)

**Analyze Images with Azure AI Vision**

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Instructions Resources Help

1. Select **Create a resource**.

2. Select **Create a resource**.

3. In the search bar, search for **Azure AI services**, select **Azure AI Services**, and create an Azure AI services multi-service account resource with the following settings:

- Subscription**: Your Azure subscription
- Resource group**: Choose or create a resource group (if you are using a restricted subscription, you may not have permission to create a new resource group - use the one provided)
- Region**: Choose from East US, West US, France Central, Korea Central, North Europe, Southeast Asia, West Europe, or East Asia\*
- Name**: Enter a unique name
- Pricing tier**: Standard S0

\*Azure AI Vision 4.0 full feature sets are currently only available in these regions.

4. Select the required checkboxes and create the resource.

5. Wait for deployment to complete, and then view

20% Tasks Complete

End >

Analyze Images with Azure AI Vision - Google Chrome

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Microsoft.CognitiveServicesAllInOne

Microsoft Azure

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LODS-PROD-MCA (LODSPROD.M...)

Home >

## Microsoft.CognitiveServicesAllInOne-20250120200936 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

**Overview**

**Your deployment is complete**

Deployment name : Microsoft.CognitiveServicesAllInOne-20250120200936

Subscription : MOC Subscription-lod50079727

Resource group : ResourceGroup1

Start time : 1/20/2025, 8:11:39 PM

Correlation ID : 8ded7a7d-402a-ac03-a963191e06cb

> Deployment details

> Next steps

[Go to resource](#)

Give feedback

Tell us about your experience with deployment

**Analyze Images with Azure AI Vision**

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Instructions Resources Help

page in the next procedure.

## Prepare to use the Azure AI Vision SDK

In this exercise, you'll complete a partially implemented client application that uses the Azure AI Vision SDK to analyze images.

**Note:** You can choose to use the SDK for either **C#** or **Python**. In the steps below, perform the actions appropriate for your preferred language.

1. In Visual Studio Code, in the **Explorer** pane, browse to the **Labfiles/01-analyze-images** folder and expand the **C-Sharp** or **Python** folder depending on your language preference.

2. Right-click the **image-analysis** folder and open an integrated terminal. Then install the Azure AI Vision SDK package by running the appropriate command for your language preference:

**C#**

```
dotnet add package Azure.AI.Vision.
```

**Note:** If you are prompted to install dev kit

25% Tasks Complete

End >

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File Edit Selection View Go

EXPLORER

MSLEARN-AI-VISION

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main

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Open File...

Open Folder...

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PROBLEMS

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DEBUG CONSOLE

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PORTS

AZURE

powershell - image-analysis

```
Requirement already satisfied: charset-normalizer<4,>=2 in c:\users\student\miniconda3\lib\site-packages (from re...  
requests>=2.21.0->azure-core>1.30.0->azure-ai-vision-imageanalysis==1.0.0b3) (2.0.4)  
Requirement already satisfied: idna<4,>=2.5 in c:\users\student\miniconda3\lib\site-packages (from reques...  
requests>=2.21.0->azure-core>1.30.0->azure-ai-vision-imageanalysis==1.0.0b3) (3.4)  
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\student\miniconda3\lib\site-packages (from reques...  
requests>=2.21.0->azure-core>1.30.0->azure-ai-vision-imageanalysis==1.0.0b3) (1.26.16)  
Requirement already satisfied: certifi>=2017.4.17 in c:\users\student\miniconda3\lib\site-packages (from reques...  
requests>=2.21.0->azure-core>1.30.0->azure-ai-vision-imageanalysis==1.0.0b3) (2023.5.7)  
Installing collected packages: typing-extensions, isodate, azure-core, azure-ai-vision-imageanalysis  
Successfully installed azure-ai-vision-imageanalysis-1.0.0b3 azure-core-1.32.0 isodate-0.7.2 typing-extensions-4.12.2  
PS C:\Users\Student\Desktop\mslearn-ai-vision\Labfiles\01-analyze-images\Python\image-analysis>
```

**Analyze Images with Azure AI Vision**

2 Hr 43 Min Remaining

Instructions Resources Help

browse to the **Labfiles/01-analyze-images** folder and expand the **C-Sharp** or **Python** folder depending on your language preference.

2. Right-click the **image-analysis** folder and open an integrated terminal. Then install the Azure AI Vision SDK package by running the appropriate command for your language preference:

**C#**

```
dotnet add package Azure.AI.Vision.
```

**Note:** If you are prompted to install dev kit extensions, you can safely close the message.

**Python**

```
pip install azure-ai-vision-imageanalysis
```

**Tip:** If you are doing this lab on your own machine, you'll also need to install `matplotlib` and `Pillow`.

3. View the contents of the **image-analysis** folder, and note that it contains a file for configuration.

32% Tasks Complete

End >

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        - 07-custom-vision-image-classification
      - \_build.yml
      - \_config.yml
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      - index.md
      - LICENSE
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image-analysis.py

```
1 AI_SERVICE_ENDPOINT = https://manas1-102-2s.cognitiveservices.azure.com/  
2 AI_SERVICE_KEY = Ee3f8761p4mC2D5sXmc9HSr5FhoyXn105Fhadeck39NwHE15JQ0799BAACyE8jFX33  
3 w3AAAEACOGV113
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE

12.2

PS C:\Users\Student\Desktop\mslearn-ai-vision\Labfiles\01-analyze-images\Python\image-analysis>

Analyze Images with Azure AI Vision

2 Hr 40 Min Remaining

Instructions Resources Help

Python

```
pip install azure-ai-vision-imageanalysis
```

Tip: If you are doing this lab on your own machine, you'll also need to install matplotlib and pillow.

3. View the contents of the **image-analysis** folder, and note that it contains a file for configuration settings:

- C#: appsettings.json
- Python: .env

Open the configuration file and update the configuration values it contains to reflect the endpoint and an authentication key for your Azure AI services resource. Save your changes.

4. Note that the **image-analysis** folder contains a code file for the client application:

- C#: Program.cs
- Python: image-analysis.py

Open the code file and at the top, under the

39% Tasks Complete

End >

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image-analysis.py

```
71  
72 # Get image dense captions  
73 if result.dense_captions is not None:  
74     print("\nDense Captions:")  
75     for caption in result.dense_captions.list:  
76         print("Caption: '{}' (confidence: {:.2f}%)".format(caption.text, caption.confidence))  
77  
78 # Get image tags  
79  
80  
81 # Get objects in the image  
82
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE

Analyzing image...

Caption: 'a man walking a dog on a leash on a street' (confidence: 82.05%)

Dense Captions:

- Caption: 'a man walking a dog on a leash on a street' (confidence: 82.05%)
- Caption: 'a man walking on a street' (confidence: 69.02%)
- Caption: 'a yellow car on the street' (confidence: 78.17%)
- Caption: 'a black dog walking on the street' (confidence: 75.33%)
- Caption: 'a blurry image of a blue car' (confidence: 82.03%)
- Caption: 'a yellow taxi cab on the street' (confidence: 72.30%)

PS C:\Users\Student\Desktop\mslearn-ai-vision\Labfiles\01-analyze-images\Python\image-analysis>

Analyze Images with Azure AI Vision

2 Hr 31 Min Remaining

Instructions Resources Help

5. Save your changes and return to the integrated terminal for the **image-analysis** folder, and enter the following command to run the program with the argument **images/street.jpg**:

C#

```
dotnet run images/street.jpg
```

Python

```
python image-analysis.py images/street.jpg
```

6. Observe the output, which should include a suggested caption for the **street.jpg** image.

7. Run the program again, this time with the argument **images/building.jpg** to see the caption that gets generated for the **building.jpg** image.

8. Repeat the previous step to generate a caption for the **images/person.jpg** file.

Get suggested tags for an image

61% Tasks Complete

End >

Analyze Images with Azure AI Vision - Google Chrome

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image-analysis.py

```
71  
72 # Get image dense captions  
73 if result.dense_captions is not None:  
74     print("\nDense Captions:")  
75     for caption in result.dense_captions.list:  
76         print("Caption: '{}' (confidence: {:.2f}%)".format(caption.text, caption.confidence))  
77  
78 # Get image tags  
79  
80  
81 # Get objects in the image  
82
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE

Analyzing image...

Caption: 'a large white building with a dome and a large lawn with United States Capitol in the background' (confidence: 64.52%)

Dense Captions:

- Caption: 'a large white building with a dome and a large lawn' (confidence: 64.52%)

python image-analysis.py images/building.jpg

Analyzing image...

Caption: 'a man in a suit' (confidence: 78.54%)

Dense Captions:

- Caption: 'a man in a suit' (confidence: 78.55%)
- Caption: 'a man in a suit giving a thumbs up' (confidence: 80.91%)

python image-analysis.py images/person.jpg

Analyzing image...

Caption: 'a man walking a dog on a leash on a street' (confidence: 82.05%)

Dense Captions:

- Caption: 'a man walking on a street' (confidence: 69.02%)
- Caption: 'a yellow car on the street' (confidence: 78.17%)
- Caption: 'a black dog walking on the street' (confidence: 75.33%)
- Caption: 'a blurry image of a blue car' (confidence: 82.03%)
- Caption: 'a yellow taxi cab on the street' (confidence: 72.30%)

python image-analysis.py images/street.jpg

Analyze Images with Azure AI Vision

2 Hr 25 Min Remaining

Instructions Resources Help

5. Save your changes and return to the integrated terminal for the **image-analysis** folder, and enter the following command to run the program with the argument **images/street.jpg**:

C#

```
dotnet run images/street.jpg
```

Python

```
python image-analysis.py images/street.jpg
```

6. Observe the output, which should include a suggested caption for the **street.jpg** image.

7. Run the program again, this time with the argument **images/building.jpg** to see the caption that gets generated for the **building.jpg** image.

8. Repeat the previous step to generate a caption for the **images/person.jpg** file.

64% Tasks Complete

End >



Analyze Images with Azure AI Vision - Google Chrome

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OUTLINE

TIMELINE

main

PS C:\Users\Student\Desktop\mslearn-ai-vision\Labfiles\01-analyze-images\Python\image-analysis> python image-analysis.py images/person.jpg

Analyzing image...

Caption: 'a man in a suit' (confidence: 78.56%)

Dense Captions:

Caption: 'a man in a suit' (confidence: 78.55%)

Caption: 'a man in a suit giving a thumbs up' (confidence: 80.91%)

Tags:

Tag: 'clothing' (confidence: 99.72%)

Tag: 'person' (confidence: 99.33%)

Tag: 'human face' (confidence: 98.89%)

Tag: 'man' (confidence: 94.58%)

Tag: 'orator' (confidence: 90.42%)

Tag: 'glasses' (confidence: 89.57%)

Tag: 'speech' (confidence: 89.33%)

Tag: 'spokesperson' (confidence: 89.82%)

Tag: 'public speaking' (confidence: 85.80%)

Tag: 'shirt' (confidence: 85.21%)

Tag: 'gentleman' (confidence: 85.02%)

Tag: 'suit' (confidence: 84.60%)

Tag: 'healthcare' (confidence: 41.78%)

PS C:\Users\Student\Desktop\mslearn-ai-vision\Labfiles\01-analyze-images\Python\image-analysis> python image-analysis.py images/building.jpg

Analyzing image...

Caption: 'a large white building with a dome and a large lawn with United States Capitol in the background' (confidence: 64.52%)

Analyze Images with Azure AI Vision

2 Hr 15 Min Remaining

Instructions Resources Help

1. In the `AnalyzeImage` function, under the comment `Get image tags`, add the following code:

C#

```
// Get image tags
if (result.Tags.Values.Count > 0)
{
    Console.WriteLine($"n Tags:");
    foreach (DetectedTag tag in result.Tags)
    {
        Console.WriteLine($" {tag.Name}");
    }
}
```

Python

```
# Get image tags
if result.tags is not None:
    print("\ntags:")
    for tag in result.tags.list:
        print(" Tag: '{}' (confidence: {}".format(tag.name, tag.confidence))
```

2. Save your changes and run the program once for

76% Tasks Complete

End >

Analyze Images with Azure AI Vision - Google Chrome

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OUTLINE

TIMELINE

main

PS C:\Users\Student\Desktop\mslearn-ai-vision\Labfiles\01-analyze-images\Python\image-analysis> python image-analysis.py images/street.jpg

Analyzing image...

Caption: 'a man walking a dog on a leash on a street' (confidence: 82.05%)

Dense Captions:

Caption: 'a man walking a dog on a leash on a street' (confidence: 82.07%)

Caption: 'a man walking on a street' (confidence: 69.83%)

Caption: 'a yellow car on the street' (confidence: 78.17%)

Caption: 'a black dog walking on the street' (confidence: 75.33%)

Caption: 'a blurry image of a blue car' (confidence: 82.01%)

Caption: 'a yellow taxi cab on the street' (confidence: 72.42%)

Tags:

Tag: 'outdoor' (confidence: 99.87%)

Tag: 'land vehicle' (confidence: 99.82%)

Tag: 'vehicle' (confidence: 98.89%)

Tag: 'building' (confidence: 98.55%)

Tag: 'road' (confidence: 95.80%)

Tag: 'wheel' (confidence: 95.14%)

Tag: 'street' (confidence: 94.71%)

Tag: 'person' (confidence: 93.01%)

Tag: 'clothing' (confidence: 91.19%)

Tag: 'taxi' (confidence: 90.95%)

Tag: 'car' (confidence: 84.01%)

Tag: 'dog' (confidence: 82.68%)

Tag: 'yellow' (confidence: 77.06%)

Tag: 'walking' (confidence: 74.11%)

Tag: 'city' (confidence: 64.80%)

Tag: 'woman' (confidence: 57.53%)

Analyze Images with Azure AI Vision

2 Hr 14 Min Remaining

Instructions Resources Help

C#

```
// Get image tags
if (result.Tags.Values.Count > 0)
{
    Console.WriteLine($"n Tags:");
    foreach (DetectedTag tag in result.Tags)
    {
        Console.WriteLine($" {tag.Name}");
    }
}
```

Python

```
# Get image tags
if result.tags is not None:
    print("\ntags:")
    for tag in result.tags.list:
        print(" Tag: '{}' (confidence: {}".format(tag.name, tag.confidence))
```

2. Save your changes and run the program once for each of the image files in the `images` folder, observing that in addition to the image caption, a list of suggested tags is displayed.

76% Tasks Complete

End >

Analyze Images with Azure AI Vision - Google Chrome

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OUTLINE

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main

PS C:\Users\Student\Desktop\mslearn-ai-vision\Labfiles\01-analyze-images\Python\image-analysis> python image-analysis.py images/street.jpg

Analyzing image...

Caption: 'a man walking a dog on a leash on a street' (confidence: 82.05%)

Dense Captions:

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Caption: 'a man walking on a street' (confidence: 69.83%)

Caption: 'a yellow car on the street' (confidence: 78.17%)

Caption: 'a black dog walking on the street' (confidence: 75.33%)

Caption: 'a blurry image of a blue car' (confidence: 82.01%)

Caption: 'a yellow taxi cab on the street' (confidence: 72.42%)

Tags:

Tag: 'outdoor' (confidence: 99.87%)

Tag: 'land vehicle' (confidence: 99.82%)

Tag: 'vehicle' (confidence: 98.89%)

Tag: 'building' (confidence: 98.55%)

Tag: 'road' (confidence: 95.80%)

Tag: 'wheel' (confidence: 95.14%)

Tag: 'street' (confidence: 94.71%)

Tag: 'person' (confidence: 93.01%)

Tag: 'clothing' (confidence: 91.19%)

Tag: 'taxi' (confidence: 90.95%)

Tag: 'car' (confidence: 84.01%)

Tag: 'dog' (confidence: 82.68%)

Tag: 'yellow' (confidence: 77.06%)

Tag: 'walking' (confidence: 74.11%)

Tag: 'city' (confidence: 64.80%)

Tag: 'woman' (confidence: 57.53%)

Objects in image:

Analyze Images with Azure AI Vision

2 Hr 9 Min Remaining

Instructions Resources Help

reducing the size of the data payload that needs to be returned. See the [.NET SDK documentation](#) or [Python SDK documentation](#) for more details.

Clean up resources

If you're not using the Azure resources created in this lab for other training modules, you can delete them to avoid incurring further charges. Here's how:

- ☐ 1. Open the Azure portal at <https://portal.azure.com>, and sign in using the Microsoft account associated with your Azure subscription.
- ☐ 2. In the top search bar, search for `Azure AI services`, and select the Azure AI services multi-service account resource you created in this lab.
- ☐ 3. On the resource page, select `Delete` and follow the instructions to delete the resource.

More information

In this exercise, you explored some of the image analysis and manipulation capabilities of the Azure AI Vision service. The service also includes capabilities for detecting objects and people, and other computer vision

91% Tasks Complete

End >

Analyze Images with Azure AI Vision - Google Chrome

labclient.labondemand.com/LabClient/58938263-f15b-442b-8dcb-170146a1cee0

mslearn-ai-vision

EXPLORER

- MSLEARN-AI-VISION
  - Instructions
  - Labfiles
    - 01-analyze-images
      - C-Sharp
      - Python
        - image-analysis
          - images
            - building.jpg
            - person.jpg
            - street.jpg
          - image-analysis.py
- OUTLINE
- TIMELINE

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE

PowerShell - image-analysis

```
python .\image-analysis.py
```

Analyzing image...

Caption: 'a man walking a dog on a leash on a street' (confidence: 82.05%)

Dense Captions:

- Caption: 'a man walking a dog on a leash on a street' (confidence: 82.07%)
- Caption: 'a man walking on a street' (confidence: 69.83%)
- Caption: 'a yellow car on the street' (confidence: 78.17%)
- Caption: 'a black dog walking on the street' (confidence: 75.33%)
- Caption: 'a blurry image of a blue car' (confidence: 82.81%)
- Caption: 'a yellow taxi cab on the street' (confidence: 72.42%)

Tags:

- Tag: 'outdoor' (confidence: 99.87%)
- Tag: 'land vehicle' (confidence: 99.82%)
- Tag: 'vehicle' (confidence: 98.89%)
- Tag: 'building' (confidence: 98.55%)
- Tag: 'road' (confidence: 95.98%)
- Tag: 'wheel' (confidence: 95.14%)
- Tag: 'street' (confidence: 94.71%)
- Tag: 'person' (confidence: 93.81%)
- Tag: 'clothing' (confidence: 91.19%)
- Tag: 'taxi' (confidence: 90.95%)
- Tag: 'car' (confidence: 84.81%)
- Tag: 'dog' (confidence: 82.68%)
- Tag: 'yellow' (confidence: 77.88%)
- Tag: 'walking' (confidence: 74.11%)
- Tag: 'city' (confidence: 64.88%)
- Tag: 'woman' (confidence: 57.53%)

Objects in Image:

Ln 140, Col 1 Spaces: 4 UTF-8 CRLF Python 3.11.4 (base: conda)

Analyze Images with Azure AI Vision

2 Hr 4 Min Remaining

Instructions Resources Help 100%

Azure Portal

URL <https://portal.azure.com/#home>

Subscription [b519f68f-e0e8-404d-8688-1bbb0ecd1d2](#)

Username [User1-47544160@L0DSPRODMCA.onmicrosoft.com](#)

Password [dHk89ei0D!](#)

Resource Group

ResourceGroup1

AI-102-Win11

Username [Student](#)

Password [Pa55wrd](#)

Ctrl+Alt+Delete

Open in New Window

63°F Haze

8:52 PM 1/20/2025

Analyze Images with Azure AI Vision - Google Chrome

labclient.labondemand.com/LabClient/58938263-f15b-442b-8dcb-170146a1cee0

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- PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS AZURE

PowerShell - image-analysis

```
python .\image-analysis.py
```

Tag: 'walking' (confidence: 74.11%)

Tag: 'city' (confidence: 64.88%)

Tag: 'woman' (confidence: 57.53%)

Objects in Image:

- car (confidence: 72.48%)
- taxi (confidence: 77.88%)
- person (confidence: 78.18%)
- dog (confidence: 54.48%)

Results saved in objects.jpg

People in Image:

- {'x': 241, 'y': 189, 'w': 155, 'h': 399} (confidence: 94.99%)
- {'x': 396, 'y': 264, 'w': 23, 'h': 58} (confidence: 24.92%)
- {'x': 699, 'y': 262, 'w': 28, 'h': 33} (confidence: 22.45%)
- {'x': 138, 'y': 238, 'w': 28, 'h': 31} (confidence: 6.96%)
- {'x': 129, 'y': 188, 'w': 15, 'h': 26} (confidence: 1.89%)
- {'x': 146, 'y': 188, 'w': 16, 'h': 25} (confidence: 1.82%)
- {'x': 485, 'y': 263, 'w': 15, 'h': 28} (confidence: 0.96%)
- {'x': 164, 'y': 187, 'w': 17, 'h': 25} (confidence: 0.84%)
- {'x': 176, 'y': 187, 'w': 13, 'h': 25} (confidence: 0.45%)
- {'x': 139, 'y': 186, 'w': 42, 'h': 29} (confidence: 0.19%)
- {'x': 518, 'y': 262, 'w': 17, 'h': 18} (confidence: 0.12%)
- {'x': 247, 'y': 247, 'w': 141, 'h': 121} (confidence: 0.11%)

Results saved in people.jpg

PS C:\Users\Student\Desktop\mslearn-ai-vision\Labfiles\01-analyze-images\Python\image-analysis>

Ln 140, Col 1 Spaces: 4 UTF-8 CRLF Python 3.11.4 (base: conda)

Analyze Images with Azure AI Vision

2 Hr 4 Min Remaining

Instructions Resources Help 100%

Azure Portal

URL <https://portal.azure.com/#home>

Subscription [b519f68f-e0e8-404d-8688-1bbb0ecd1d2](#)

Username [User1-47544160@L0DSPRODMCA.onmicrosoft.com](#)

Password [dHk89ei0D!](#)

Resource Group

ResourceGroup1

AI-102-Win11

Username [Student](#)

Password [Pa55wrd](#)

Ctrl+Alt+Delete

Open in New Window

63°F Haze

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