

VS Code를 활용해 MS Tech Community에 효과적으로 글 쓰기

MLSA 송민석



목차

MS Tech
Community란?



소개: MLSA 송민석

MS Tech
Community에
기여하기







VS Code를 활용해
깔끔한 기술문서
작성하기



MS Tech Community란?

- 작성자: Microsoft 직원과 MS 커뮤니티(Microsoft MVP, MLSA)
- 내용: Microsoft 기술과 관련된 문서를 제작, 심사를 거쳐 출판할 수 있는 플랫폼



Search   

Azure AI / ML Studio

956

Fine-tune Phi-3

Deploy the model

Set up Prompt flow

Chat with Phi-3

Properties

Method: **Completed**

Created on: Jul 12, 2024 12:40 PM

Start time: Jul 12, 2024 12:40 PM

Duration: 32m 18.27s

Compute duration: 32m 18.27s

Created by: Song Minseok

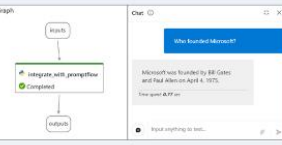
Job type: Prompt

Equipment: ChatCompletion

Arguments: None

Registered models: None

Graph



Chat

Who founded Microsoft?

Microsoft was founded by Bill Gates and Paul Allen on April 4, 1975.

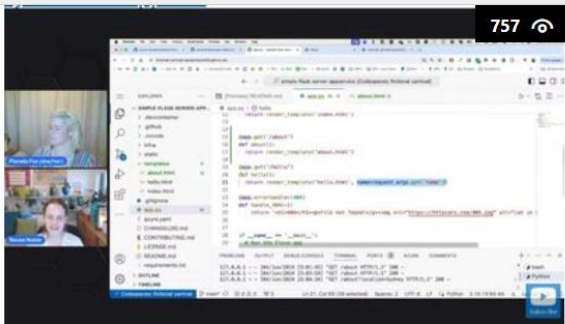
See speed & AI...

Fine-Tune and Integrate Custom Phi-3 Models with Prompt...

Minseok_Song on Jul 18 2024 12:00 AM

Phi-3 is a family of small language models (SLMs) developed by Microsoft that delivers exceptional performance and cost...

757

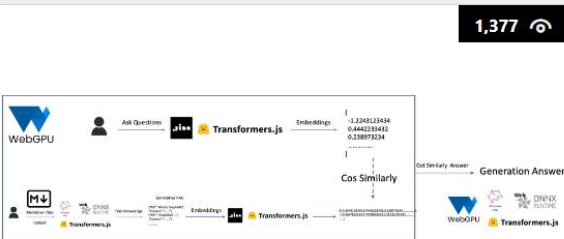


Learn how to build Python Web Apps from our 6-part series!

Pamela_Fox on Jul 16 2024 12:00 AM

Get all the recordings, slides, and sample projects from our livestream series on Python Web Apps, and start learning to...

1,377



Use WebGPU + ONNX Runtime Web + Transformer.js to build...

kinfey on Jul 15 2024 12:00 PM

Learn how to harness the power of WebGPU, ONNX Runtime, and Web Transformer.js to create cutting-edge Retrieval-Augmente...

MLSA 송민석

인하대학교 산업경영공학과, 인공지능공학과 전공

MS Tech Community에 출판된 글들

Fine-Tune and
Integrate Custom Phi-
3 Models with
Prompt Flow in Azure
AI Studio



Fine-Tune and
Integrate Custom Phi-
3 Models with
Prompt Flow: Step-
by-Step Guide



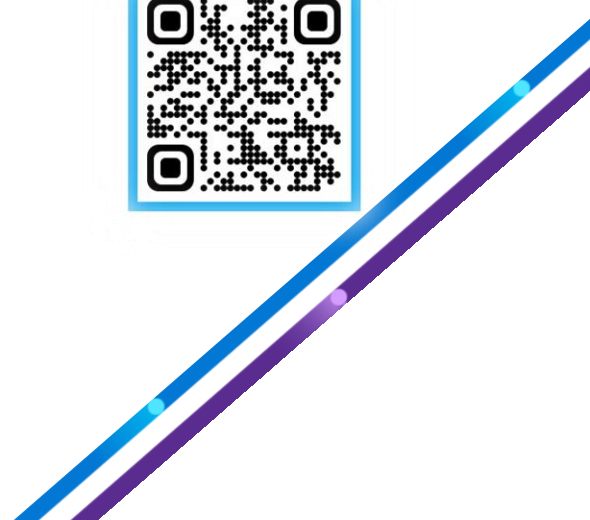
Build a chatbot
service to ensure safe
conversations: Using
Azure Content Safety
& Azure OpenAI



Teach ChatGPT to
Answer Questions:
Using Azure AI
Search & Azure
OpenAI (Semantic
Kernel)

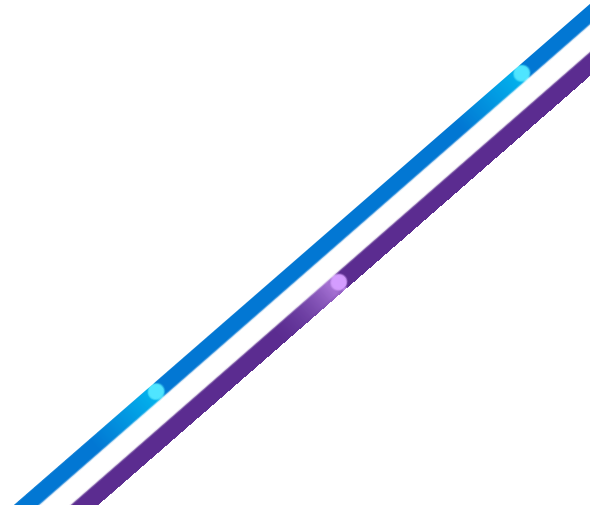


Teach ChatGPT to
Answer Questions:
Using Azure AI
Search & Azure
OpenAI (Lang Chain)



MS Tech Community에 기여하기

1. MLSA에 가입 후 Writer 신청 폼 작성 하기

- MLSA에 등록 완료
 - <https://techcommunity.microsoft.com/> 에 접속 후 Tech community에 회원가입
 - [Education Developer Blog \(sharepoint.com\)](https://sharepoint.com) 에 접속
 - **Become an Blog Author Request Form** 선택
 - 폼 양식 채우고 제출하기 (폼 양식 바로가기 링크 [Become an author in our EduBlog \(office.com\)](#))
- 

MS Tech Community에 기여하기

1. MLSA에 가입 후 Writer 신청 폼 작성 하기

- MLSA에 등록 완료





Microsoft | [MVP Communities](#) [Student Ambassadors](#) [Most Valuable Professionals](#) [Regional Directors](#)

Student Ambassadors [Get Started](#) [Events](#) [Imagine Cup](#) [Questions](#) [Find a Student Ambassador](#) [Learn Student Hub](#) [Resources](#) ▾



Minseok Song



 Korea
 Inha University
 First Year Joined 2023
 He/Him/His

[Profile](#) [Events](#)

Headline

Passionate about programming and teamwork, always looking for new challenges.

Biography

Hello, I'm Minseok Song!
My journey into programming started in 2010 with a simple game I developed. This game, designed to avoid obstacles and reach the next level within 30 seconds, ignited my passion for programming. Since then, I have dedicated myself to creating software that brings happiness...

Languages

Korean

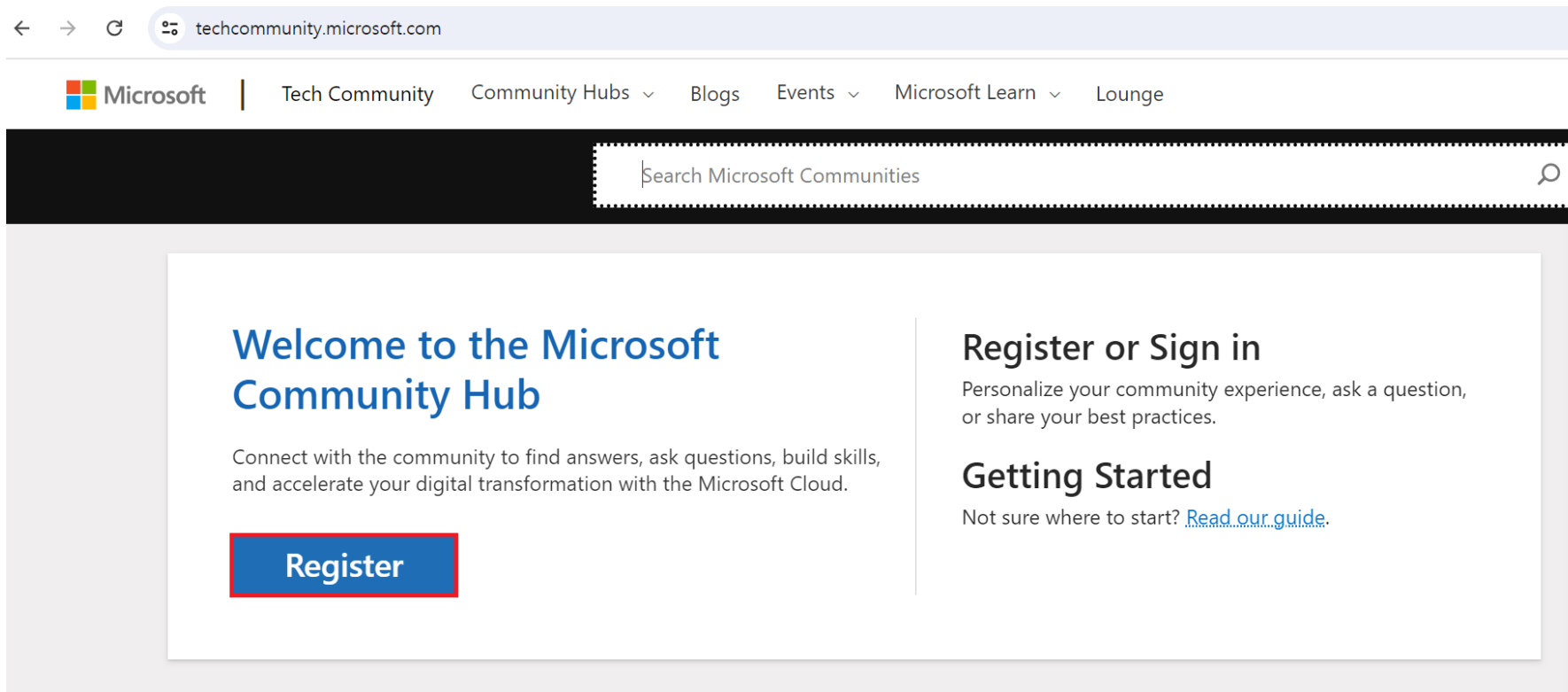
Social



MS Tech Community에 기여하기

1. MLSA에 가입 후 Writer 신청 폼 작성 하기


- <https://techcommunity.microsoft.com/> 에 접속
- Register 버튼을 선택
- Student Ambassadors 계정으로 Tech community에 회원가입




MS Tech Community에 기여하기


1. MLSA에 가입 후 Writer 신청 폼 작성 하기


- [Education Developer Blog \(sharepoint.com\)](#) 에 접속
- **Become an Blog Author Request Form** 선택


 **Student Ambassadors Program Handbook** ☆ Not following


 Immersive reader Share ▾ ↗


Education Developer Blog

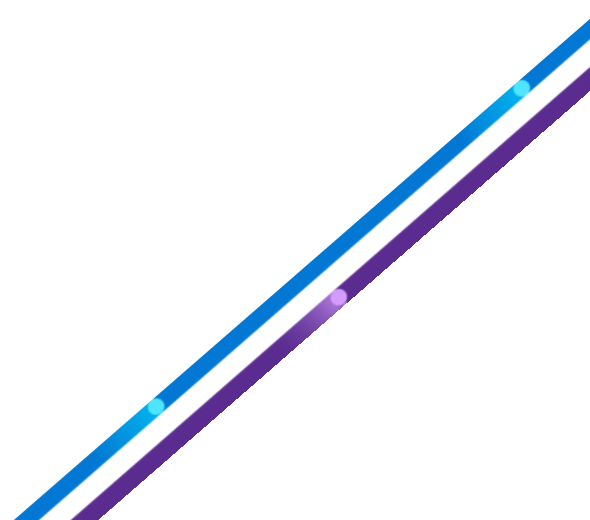
 Education Developer Blog

 Content Type

 Anatomy of a blog

 Best practices

 Become a Blog Author Request Form



MS Tech Community에 기여하기

1. MLSA에 가입 후 Writer 신청 폼 작성 하기

- **Become an Blog Author Request Form**에서 양식 채우고 제출하기(폼 양식 바로가기 링크: [Become an author in our EduBlog \(office.com\)](https://aka.ms/faculty))

Become an author in our EduBlog

All blog authors require a techcommunity profile
To create a techcommunity profile authors simply need to login to the blog (<https://aka.ms/faculty>) using an email account.
Users then create a profile.
Users need to share using this form, their Numeric UserID.
Example of a profile <https://techcommunity.microsoft.com/t5/user/viewprofilepage/user-id/14141>
Bruno User-Id is 14141

* Required

1. Your Name *

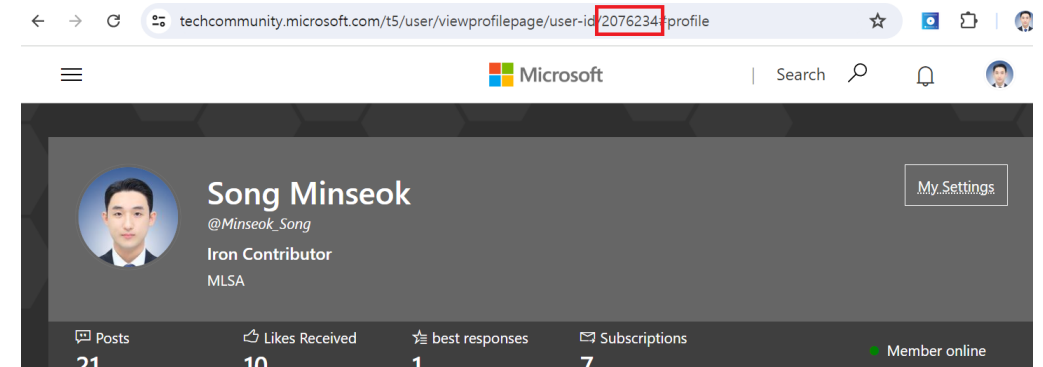
Enter your answer

2. Your TechCommunity blog user ID *

Enter your answer

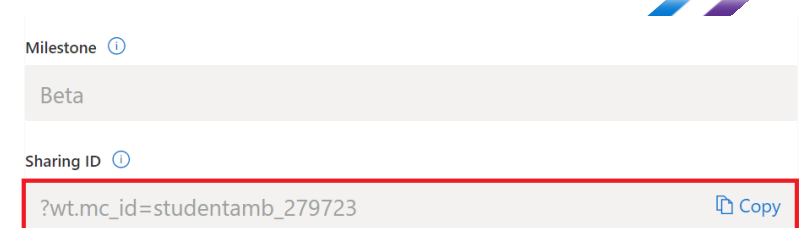
Tech Community blog user ID 찾는 법

- Tech Community 프로필에 접속한다.
- 주소창에서 blog user-id를 확인한다.



Contributor ID 찾는 법

- <https://mvp.microsoft.com/en-US/account>에 접속.
- 프로필 수정페이지에서 contributor id를 복사한다.



MS Tech Community에 기여하기

2. Tech Community에서 글 작성하기

- <https://techcommunity.microsoft.com/t5/educator-developer-blog/bg-p/EducatorDeveloperBlog>에 접속
- **Create New Article** 선택

Educator Developer Blog

Filter by label

Subscribe

RSS

Follow

[Home](#) > [Education Sector](#) > Educator Developer Blog

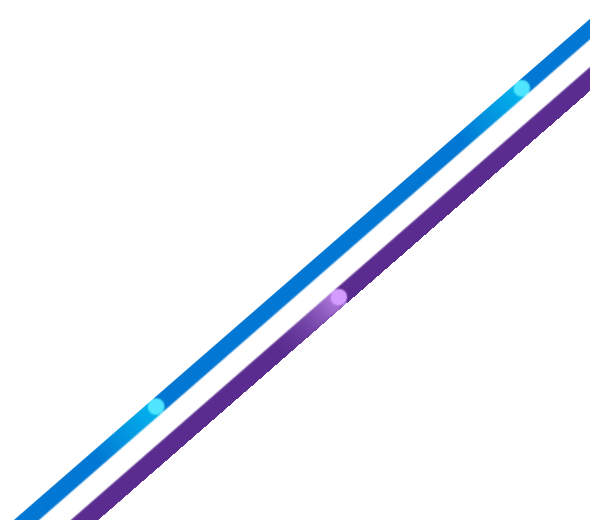
Create New Article

Options

MS Tech Community에 기여하기

3. 어떤 주제의 글을 쓰면 좋나요?

- MS 기술을 이용해서 웹 앱을 배포하는 내용
- Azure OpenAI를 이용해서 무언가를 만드는 내용
- Power BI를 다른 Azure 서비스와 결합해서 활용하는 내용
- 소형언어모델 Phi-3을 활용해서 ~해보기
- ...
- -> 마이크로소프트 기술을 활용해서 만들 수 있는 내용을 튜토리얼로 제작



VS Code를 활용해 MS Tech Community에 효과적으로 글 쓰기

Promptflow.md finetune-phi3\includes 1, U 01-Request-GPU-Quotas.md 2, U X Preview 01-Request-GPU-Quotas.md X

finetune-phi3 > includes > 01-Request-GPU-Quotas.md > # Request GPU Quotas in Azure Subscription

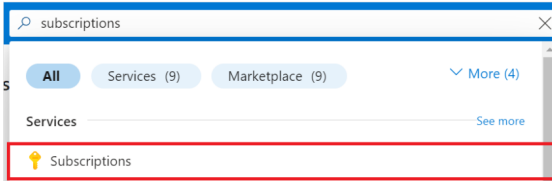
```
3 # Request GPU Quotas in Azure Subscription
15 - Request GPU Quotas in your Azure Subscription
16
17 ### Request GPU Quotas in Azure Subscription
18
19 1. Type *subscriptions* in the **search bar** at the top of the
20 portal page and select **Subscriptions** from the options that
21 appear.
22
23 ::image type="content" source=".../media/
24 00-1-type-subscriptions.png" alt-text="Type subscriptions in
25 the search bar.":::
26
27 1. Select the subscription you'd like to use.
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29 1. Perform the following tasks:
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31 - Select **Usage + quotas** from the left side tab.
32 - Select the **Region** you'd like to use.
33 - Select the **Quota name** to use. For example, select
34 Standard NCSv3 Family vCPUs, which includes the
35 *Standard_NC6s_v3* GPU.
36
37 - Select the **New Quota Request**.
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```

Preview 01-Request-GPU-Quotas.md X

- Request GPU Quotas in your Azure Subscription

Request GPU Quotas in Azure Subscription

- Type *subscriptions* in the **search bar** at the top of the portal page and select **Subscriptions** from the options that appear.



- Select the subscription you'd like to use.

- Perform the following tasks:
 - Select **Usage + quotas** from the left side tab.
 - Select the **Region** you'd like to use.
 - Select the **Quota name** to use. For example, select Standard NCSv3 Family vCPUs, which includes the *Standard_NC6s_v3* GPU.
 - Select the **New Quota Request**.

00-1-type-subscriptions.png alt-text="Type subscriptions in the search bar.":::

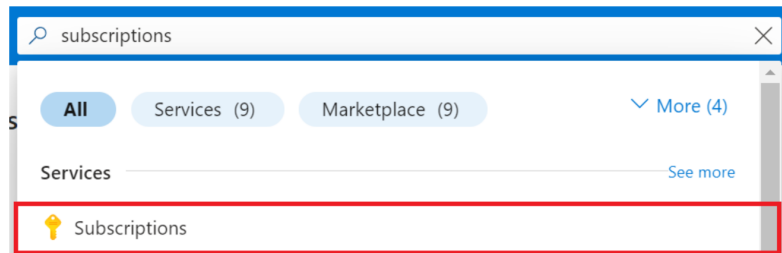
00-2-enter-new-quota-limits.png alt-text="Type storage accounts in the search bar.":::

- Select the **Enter a new limit**.

Microsoft | Tech Community Community Hubs Blogs Events Microsoft Learn Lounge

Request GPU Quotas in Azure Subscription

- Type *subscriptions* in the **search bar** at the top of the portal page and select **Subscriptions** from the options that appear.



- Select the subscription you'd like to use.

- Perform the following tasks:
 - Select **Usage + quotas** from the left side tab.
 - Select the **Region** you'd like to use.
 - Select the **Quota name** to use. For example, select Standard NCSv3 Family vCPUs, which includes the *Standard_NC6s_v3* GPU.
 - Select the **New Quota Request**.

Subscription 1 | Usage + quotas ☆ ...

Subscription

VS Code를 활용해 MS Tech Community에 효과적으로 글 쓰기

0. VS Code extension: Learn Authoring Pack 설치

- 잘못된 마크다운 양식 검사 기능 + 마크다운 작성요령 문서 지원

File Edit Selection View Go Run Terminal Help

EXTENSIONS

Search Extensions in Marketpl...

INSTALLED

Learn Authoring Pack

Learn Training AI Assistant

learn-article-templates

learn-images

learn-markdown

learn-preview

Learn Authoring Pack

Microsoft

Collection of extensions to assist with content creation

Disable Uninstall

DETAILS FEATURES CHANGELOG

Extension Pack (9)

learn-scarroding

markdownlint

learn-images

Categories

Extension Packs

Resources

Marketplace Repository Microsoft

More Info

Published 2018-04-06

MD001/heading-increment: Heading levels should only increment by one level at a time [Expected: h2; Actual: h3]

View Problem (Alt+F8) Quick Fix... (Ctrl+.)

Set api key and endpoint uri of the fine-tuned Phi-3 model

1. Navigate to the Azure Machine learning workspace that you created.

1. Select ****Endpoints**** from the left side tab.

:::image type="content" source="../../media/11-select-endpoints.png" alt-text="Select endpoints.":::

VS Code를 활용해 MS Tech Community에 효과적으로 글 쓰기

1. 미리보기 창 띄우기

- VS Code에서 마크다운 미리보기를 선택해 두 창을 동시에 띄워놓고 작업한다.

The screenshot shows the VS Code interface with a file explorer on the left, a code editor in the center, and a preview window on the right. The file explorer shows a project structure with folders like 'azure\ai-services', 'finetune-phi3', and 'media'. The code editor shows a markdown file '01-Request-GPU-Quotas.md' with the following content:

```
finetune-phi3 > includes > 01-Request-GPU-Quotas.md > # Request GPU Quotas in Azure Subscription
3 # Request GPU Quotas in Azure Subscription
15 - Request GPU Quotas in your Azure Subscription
16
17 ### Request GPU Quotas in Azure Subscription
18
19 1. Type *subscriptions* in the **search bar** at the top of the
20 portal page and select **Subscriptions** from the options that
21 appear.
22
23 :::image type="content" source="../../media/
24 00-1-type-subscriptions.png" alt-text="Type subscriptions in
25 the search bar.":::
26
27 1. Select the subscription you'd like to use.
28
29 1. Perform the following tasks:
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31 - Select **Usage + quotas** from the left side tab.
32 - Select the **Region** you'd like to use.
33 - Select the **Quota name** to use. For example, select
34 Standard NCSv3 Family vCPUs, which includes the
35 *Standard_NC6s_v3* GPU.
36 - Select the **New Quota Request**.
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```

The preview window on the right shows the rendered markdown content. It includes a heading 'Request GPU Quotas in Azure Subscription' and a list of steps. A red box highlights the 'Subscriptions' option in the search results, which is selected in the preview. A red arrow points from the 'Subscriptions' option in the preview to the 'Subscriptions' option in the search results.

Request GPU Quotas in Azure Subscription

1. Type *subscriptions* in the **search bar** at the top of the portal page and select **Subscriptions** from the options that appear.

subscriptions

All Services (9) Marketplace (9) More (4)

Services See more

Subscriptions

2. Select the subscription you'd like to use.
3. Perform the following tasks:
 - Select **Usage + quotas** from the left side tab.
 - Select the **Region** you'd like to use.
 - Select the **Quota name** to use. For example, select Standard NCSv3 Family vCPUs, which includes the *Standard_NC6s_v3* GPU.
 - Select the **New Quota Request**.

VS Code를 활용해 MS Tech Community에 효과적으로 글 쓰기

2. 미리보기 창의 내용을 복사하기 (Ctrl+a -> Ctrl+c -> Ctrl+v)

Promptflow.md finetune-phi3\includes 1, U 01-Request-GPU-Quotas.md 2, U Preview 01-Request-GPU-Quotas.md X


finetune-phi3 > includes > 01-Request-GPU-Quotas.md > # Request GPU Quotas in Azure Subscription

```
3 # Request GPU Quotas in Azure Subscription
15 - Request GPU Quotas in your Azure Subscription
16
17 ### Request GPU Quotas in Azure Subscription
18
19 1. Type *subscriptions* in the **search bar** at the top of the
portal page and select **Subscriptions** from the options that
appear.
20
21 :::image type="content" source="../../media/
00-1-type-subscriptions.png" alt-text="Type subscriptions in
the search bar.":::
22
23 1. Select the subscription you'd like to use.
24
25 1. Perform the following tasks:
26
27 - Select **Usage + quotas** from the left side tab.
28 - Select the **Region** you'd like to use.
29 - Select the **Quota name** to use. For example, select
Standard NCSv3 Family vCPUs, which includes the
*Standard_NC6s_v3* GPU.
30 - Select the **New Quota Request**.
31
32 :::image type="content" source="../../media/
00-2-enter-new-quota-limits.png" alt-text="Type storage
accounts in the search bar.":::
33
34 - Select the **Enter a new limit**.
```

• Request GPU Quotas in your Azure Subscription

Request GPU Quotas in Azure Subscription

1. Type *subscriptions* in the **search bar** at the top of the portal page and select **Subscriptions** from the options that appear.



2. Select the subscription you'd like to use.
3. Perform the following tasks:
 - Select **Usage + quotas** from the left side tab.
 - Select the **Region** you'd like to use.
 - Select the **Quota name** to use. For example, select Standard NCSv3 Family vCPUs, which includes the *Standard_NC6s_v3* GPU.
 - Select the **New Quota Request**.

VS Code를 활용해 MS Tech Community에 효과적으로 글 쓰기

3. 복사한 내용을 MS Tech Community 작성 페이지에 붙여넣기



붙여넣기



The screenshot shows the Microsoft Tech Community portal. At the top, there's a navigation bar with links: Microsoft, Tech Community, Community Hubs, Blogs, Events, Microsoft Learn, and Lounge. Below this, the main heading is "Request GPU Quotas in Azure Subscription". The first step is "1. Type *subscriptions* in the **search bar** at the top of the portal page and select **Subscriptions** from the options that appear." The search bar contains the text "subscriptions". Below the search bar, there are tabs: "All", "Services (9)", "Marketplace (9)", and "More (4)". The "Subscriptions" option is highlighted with a red box. Below the search results, there are instructions: "2. Select the subscription you'd like to use." and "3. Perform the following tasks:" followed by a list of steps: "Select **Usage + quotas** from the left side tab.", "Select the **Region** you'd like to use.", "Select the **Quota name** to use. For example, select Standard NCSv3 Family vCPUs, which includes the *Standard_NC6s_v3* GPU.", and "Select the **New Quota Request**." At the bottom, there's a breadcrumb trail: "Subscription 1 | Usage + quotas".

VS Code를 활용해 MS Tech Community에 효과적으로 글 쓰기

4. 사진 삽입하기 & 코드 다시 삽입하기

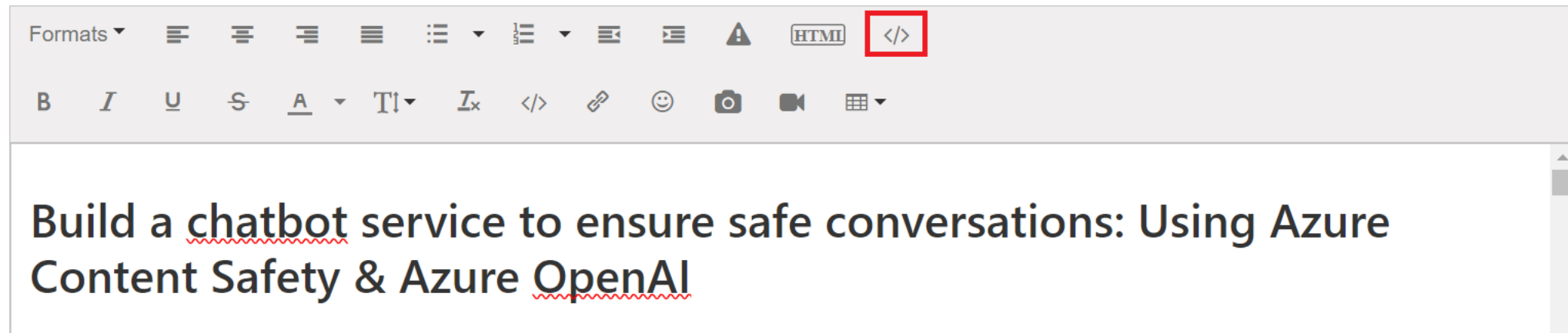
- 마크다운 preview에서 옮길 때 사진, 코드는 직접 다시 수정해야 합니다.

Message

Hint: @ links to members

[Preview](#)

Resize Editor ▾



VS Code를 활용해 MS Tech Community에 효과적으로 글 쓰기

5. MS Tech Community에서 Html 수정 버튼을 선택해 잘못된 부분 미세하게 조정

- 줄바꿈 할 때 들여쓰기가 계속 남아있는 경우 html 태그를 확인하고 맨 아래에 `
` 태그를 추가하면 들여쓰기가 초기화 됨.

The screenshot shows a VS Code window with an HTML file open. A 'Source code' window is overlaid on the right, displaying the HTML code. The code is as follows:

```
<h1 class="code-line" dir="auto" data-line="2">Build a chatbot service to ensure safe
conversations: Using Azure Content Safety&nbsp;& Azure OpenAI</h1>
<p class="code-line" data-line="4"><br /><br /></p>
<h2 id="why-should-we-care-about-the-safety-of-our-chat-service" class="code-line"
dir="auto" data-line="6">Why should we care about the safety of our chatbot service?</h2>
<p>&nbsp;&nbsp;</p>
<p class="code-line code-active-line" data-line="8">When you deploy a chatbot service on a
website, users may enter inappropriate or harmful messages that can lead to unwanted
responses from the chatbot. This can pose significant risks, including the potential for
revealing sensitive company information or allowing other users' messages to influence the
chatbot's responses. That's why it's critical to implement a content filtering mechanism that
can inspect messages from users. Azure Content Safety provides a robust solution for
```

The background shows a message editor with the text 'Build a chatbot service to ensure safe conversations: Using Azure Content Safety & Azure OpenAI' and 'Why should we care about the safety of our chatbot service?'. The text is partially obscured by the 'Source code' window.

참고 실습자료

- 발표자료 링크
- Tech Community에 기여할 때 도움이 되는 튜토리얼 작성 tip
- 튜토리얼 일부 마크다운 예시 첨부



튜토리얼 작성 예시2

Tip

예시 보면서 확인해야 할 것

1. 코드 부분 4칸 들여쓰기 (드래그로 묶어 Tab 누르기)
2. !TIP, !NOTE 활용

Prepare dataset for fine-tuning

In this exercise, you will run the `download_data.py` file to download the *wikitext* datasets to fine-tune the Phi-3 model in Azure Machine Learning.

Download your dataset using `download_dataset.py`

1. Open the `download_data.py` file in Visual Studio Code.
2. Add the following code into `download_data.py`.

```
import json
import os
from datasets import load_dataset
from config import (
    TRAIN_DATA_PATH,
    TEST_DATA_PATH)

def load_and_split_dataset(dataset_name, config_name, split_ratio):
    """
```

Microsoft was founded by Bill Gates and Paul Allen

Duration: 8.6154s

1. 다음 내용으로는~

Note

사진 들여쓰기를 제대로 안했을 경우 자동으로 넘버링 해주는 기능이 작동 하지 않게 됩니다. 들여쓰기를 제대로 지키지 않으면 글의 가독성이 저하될 수 있습니다.

언제 1. 넘버링을 하고 언제 - 를 사용하는지 구분하기

Tip

하나의 사진 안에 해야할 게 여러개라면 1. 사진설명 안에 들여쓰기로 - 를 입력합니다.

적용 예시

1. Perform the following tasks:

- Select your Azure **Subscription**.
- Select the **Resource group** to use (create a new one if needed).
- Enter **Workspace Name**. It must be a unique value.
- Select the **Region** you'd like to use.

감사합니다

