**Git Actions:**

**Chatgpt**

**Key Points:**

**Azure Login: This step remains unchanged to log in to Azure.**

**Install Azure ML CLI v2: Azure ML CLI v2 is required to submit ML jobs. This step installs the Azure ML CLI extension.**

**Submit Azure ML Job: This step submits the job defined in job.yml. Make sure job.yml is correctly formatted and located in your repository.**

**Environment Variables: The environment variables AZURE\_SUBSCRIPTION\_ID, AZURE\_RESOURCE\_GROUP, and AZURE\_WORKSPACE\_NAME are required for Azure ML. These should be stored as secrets in your GitHub repository.**

**From Bard**

**Workflow Name:**

* **GitHub Actions Test**

**Trigger:**

* **The workflow is triggered when a push event occurs, meaning code is pushed to the repository.**

**Jobs:**

* **The workflow consists of a single job named testJob.**

**Job Steps:**

1. **Echo Event Name:**
   * **Prints a message indicating the event that triggered the workflow.**
2. **Echo Repository:**
   * **Prints a message with the repository URL.**
3. **Clone Repository:**
   * **Uses the actions/checkout@v4 action to clone the repository code into the runner's environment.**
4. **List Files:**
   * **Prints the list of files in the workspace.**
5. **Login to Azure:**
   * **Uses the azure/login@v1 action to authenticate with Azure using credentials stored in the AZURE\_CREDENTIALS secret.**
6. **Install Azure ML CLI:**
   * **Installs the Azure Machine Learning CLI extension for managing Azure ML resources.**
7. **Submit Azure ML Job:**
   * **Runs the az ml job create command to submit an Azure ML job using the configuration in the job.yml file.**
     + **Specifies the resource group and workspace names for the job.**

**Key Points:**

* **The workflow is triggered automatically when code is pushed to the repository.**
* **It authenticates with Azure and submits an Azure ML job for execution.**
* **The job configuration is defined in a separate job.yml file.**
* **It relies on secrets stored in GitHub for Azure credentials.**
* **It explicitly defines the resource group and workspace names for the Azure ML job.**

**WORKFOW FILE (Create: .github/workflows/com774\_CW2.yml)**

name: GitHub Actions Test

on: [push]

jobs:

testJob:

runs-on: ubuntu-latest

steps:

- run: echo "Hi! I'm running because of a ${{ github.event\_name }} event."

- run: echo "Checking out the repository from ${{ github.repository }}."

- name: Clone repository code

uses: actions/checkout@v4

- run: echo "Repository cloned, I think I'm ready. The files look like this:"

- name: List files

run: |

ls "${{ github.workspace }}"

- name: Login to Azure

uses: azure/login@v1

with:

creds: '${{ secrets.AZURE\_CREDENTIALS }}'

- name: Install Azure ML CLI v2

run: az extension add -n ml -y

- name: Submit Azure ML job

run: az ml job create --file job.yaml --resource-group practice1 --workspace-name practice1

name: GitHub Actions Test

on: [push]

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testJob:

runs-on: ubuntu-latest

steps:

- run: echo "Hi! I'm running because of a ${{ github.event\_name }} event."

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creds: '${{ secrets.AZURE\_CREDENTIALS }}'

- name: Install Azure ML CLI v2

run: az extension add -n ml -y

- name: Submit Azure ML job

run: az ml job create --file job.yml

env:

AZURE\_SUBSCRIPTION\_ID: ${{ secrets.AZURE\_SUBSCRIPTION\_ID }}

AZURE\_RESOURCE\_GROUP: ${{ secrets.AZURE\_RESOURCE\_GROUP }}

AZURE\_WORKSPACE\_NAME: ${{ secrets.AZURE\_WORKSPACE\_NAME }}