✅ Congratulations! You passed!

Grade received 100%   **Latest Submission Grade** 100%   **To pass** 80% or higher

Go to next item   Retake the assignment in **7h 57m**

1. What is the right command to containerize an application?   **1 / 1 point**

   ○ **docker containerize -f Dockerfile**

   ⦿ **docker build .**

   ○ **docker -f Dockerfile build**

   ✓ **Correct**
   Correct!

2. What is the default and recommended way to run a FastAPI web application?   **1 / 1 point**

   ○ Using **FastAPI --run**. In a container it is useful to use **localhost** as the host to serve

   ○ Using **flask --run**. In a container it is useful to use **localhost** as the host to serve

   ⦿ Using the **uvicorn** server. In a container it is useful to use **0.0.0.0** as the host to serve.

   ✓ **Correct**
   Correct!

3. What is the right prefix to tag a container in a repository named **huggingface-ghcr** so that it can be pushed to the GitHub Container Registry?   **1 / 1 point**

○ Using the repository name, like **huggingface-ghcr**

○ Using your username and then the repository name, for example:
   alfredodeza/huggingface-ghcr

⦿ **ghcr.io**

⊘ **Correct**
   Correct!

4. What are four common ways you can trigger a GitHub workflow in GitHub   **1 / 1 point**
Actions?

⦿   1. A code change in a branch

     2. Manually

     3. A timer, to build on a schedule

     4. On a pull-request

○   1. A code change in a branch

     2. An API endpoint

     3. A timer, to build on a schedule

     4. On a pull-request

○   1. A code change in a branch

     2. A code failure, for example on failed tests

     3. A timer, to build on a schedule

     4. On a pull-request

⊘ **Correct**
   Correct!

5. For an Azure Container Registry named **demo-acr** what would the right tag be   **1 / 1 point**
for the container in the **huggingface-acr** repository so that when pushed, it
goes to Azure?

⦿ demo-acr.azure.io/huggingface-acr

○ demo-acr/huggingface-acr

○ demo-acr.azure.com/huggingface-acr

⊘ **Correct**
Correct!

6. When packaging an API with a model, what are three steps you should follow   **1 / 1 point**
before creating automation?

⦿ 1. Run the application to verify it works without containerization

2. Build the container and verify it builds without issues

3. Run the container and interact with the API to ensure it is
functionally correct

○ 1. Run the application to verify it works without containerization

2. Push the container to a registry and verify it builds without issues

3. Run the container and interact with the API to ensure it is
functionally correct

○ 1. Run the container to verify it works with containerization

2. Push the container to a registry and verify it builds without issues

3. Run the container and interact with the API to ensure it is
functionally correct

⊘ **Correct**
Correct!

7. Why would you want to register a model from Hugging Face into Azure ML   **1 / 1 point**
Studio?

○ Because it would allow a solid automation strategy with GitHub Actions

○ Because Azure ML Studio can load models dynamically

⦿ Because it would allow easier deployment, analysis, and fine tuning
within the Azure cloud.

⊘ **Correct**
Correct.

8. What are some possible scenarios that you can control that would prevent a   **1 / 1 point**
successful deployment of a containerized HTTP API on a cloud service provider
like Azure?

○   1. Azure availability zone service disruption

2. Incorrect scalability rules

⦿   1. Syntax error in the Python application

2. Incorrect port mapping from the container to the service

○   1. GitHub Actions service disruption

2. Incorrect scalability rules

⊘ **Correct**
Correct!

9. What are three ways you can upload a Hugging Face dataset onto Azure ML   **1 / 1 point**
Studio?

⦿   1. Via File Upload

2. Using the Python SDK

3. Using the URL to the raw dataset

○   1. Via Azure's API

2. Using the Python SDK

3. Using the URL to the raw dataset

○   1. Via File Upload

2. Using the Datasets library from Hugging Face

3. Using the URL to the raw dataset

⊘ **Correct**
Correct!

10. What is a good definition for what packaging an ML model is?   **1 / 1 point**

○ Is the process of making resources, such as applications and data, available to users in the cloud. It typically involves the use of cloud management platforms to automate the deployment process.

◉ Packaging a machine learning model means to create a container that can be used to deploy the model on different platforms which includes everything the model needs to run.

○ Is the process of bundling a Python and ML application into a single file, or set of files, that can be distributed and installed.

⊘ **Correct**
Correct!