Congratulations! You passed!

Grade received 100%

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To pass 80% or higher

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1. What are two important aspects of fine-tuning a model? **1 / 1 point**

- 1. Allows fast inferencing
  2. Reduces computation costs

- 1. Reduces computation costs
  2. Reuse state-of-the-art models without having to train it from scratch

- 1. Allows fast inferencing
  2. It can scale to apply a wide range of tasks including deep learning

Correct
Correct!

2. What are some components needed for automating deploying to Hugging Face Spaces? **1 / 1 point**

- 1. Dockerfile and containerization
  2. Hugging Face models
  3. GitHub Actions

- 1. Dockerfile and containerization
  2. Hugging Face models
  3. Gradio application

- [x] 1. GitHub Actions
  2. Hugging Face Token
  3. Gradio application

Correct
Correct!

3. What are some problems you may run into when deploying a containerized model to Azure Container Apps? **1 / 1 point**

- [ ] 1. Wrong scalability rules
  2. Wrong port number

- [ ] 1. Kubernetes ingress rules
  2. Not enough CPU and memory for the container

- [x] 1. Wrong port number
  2. Not enough CPU and memory for the container

Correct
Correct!

4. What are the three main services needed when deploying and automating a Hugging Face container? **1 / 1 point**

- [ ] 1. Kubernetes for scalability
  2. A container registry like Docker Hub
  3. Azure Container Apps for hosting the running container

- [x] 1. GitHub Actions for automation
  2. A container registry like the GitHub container registry
  3. Azure Container Apps for hosting the running container

- [ ] 1. GitHub Actions for automation
  2. A container registry like the GitHub container registry
  3. Hugging Face spaces

Correct
Correct!

5. What is one benefit of using Azure Container Registry (ACR) instead of using Docker Hub? **1 / 1 point**

- (●) It is easier to consume images from ACR within the Azure cloud.
- ( ) It has more flexibility with private and public images
- ( ) It has no limits on pushing and pulling of images

Correct
Correct!

6. What are two ways you can view the runtime logs after deploying to Azure Container Apps? **1 / 1 point**

- ( )
  1. Using GitHub Actions log output
  2. Using the `az` CLI to tail the logs
- ( )
  1. On Azure directly using the web UI for Azure Container Registry (ACR)
  2. On Azure directly using the web UI for container apps
- (●)
  1. On Azure directly using the web UI for container apps
  2. Using the `az` CLI to tail the logs

Correct
Correct!

7. What are the definitions for supervised learning and transfer learning? **1 / 1 point**

- ○ 1. Supervised learning is performing by manually ensuring that example data is constantly used.
  2. Transfer learning uses a pre-trained model to learn a new task.
- ○ 1. Supervised learning is performing a task by being repeatedly presented with example data.
  2. Transfer learning uses ONNX to port a model from one library to the other.
- ◉ 1. Supervised learning is performing a task by being repeatedly presented with example data.
  2. Transfer learning uses a pre-trained model to learn a new task.

✓ **Correct**
Correct!

8. What is an advantage of using transfer learning? **1 / 1 point**

- ◉ You can use a high-quality model that is trained efficiently on another domain
- ○ It can detect patterns in data that are not easily identified by humans
- ○ It can help to reduce the number of errors in the training dataset

✓ **Correct**
Correct!

9. Which one of the following options is the correct one to define a Gradio interface for text input using the `prediction()` function? **1 / 1 point**

- ○ `gradio(fn=prediction, inputs="text", outputs="text").launch()`
- ◉ `gradio.Interface(fn=prediction, inputs="text", outputs="text").launch()`

- ◯ `GradioInterface(fn=prediction, inputs="text", outputs="text").deploy()`

✓ **Correct**
Correct!

10. What is a compelling reason to use Hugging Face Spaces? **1 / 1 point**

- ◉ It allows to demonstrate how a model works in an interactive demo with small amount of code.
- ◯ It allows to automate the deployment and management of the model.
- ◯ It can help track the performance of a model over time

✓ **Correct**
Correct!