1/1 point

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1.	What are the advantages of containers?	1 / 1 point
	Containers can run any host OS	
	Containers are never affected by the host machine	
	Containers are always more secure	
	Containers are more efficient than virtual machines because they don't require the overhead of a complete virtualization solution.	
	⊘ Correct	
	Containers are portable and run on any platform that supports	
	container technology. Containers provide isolation between	
	applications, so one application cannot interfere with another.	

What is an HTTP API?
A website that only uses HTML and CSS.
Websockets
An HTTP API is an interface for communication between two systems using the Hypertext Transfer Protocol (HTTP).
A website that uses JavaScript to make requests to a server.

⊘ Correct

Another way of describing it would be a system that allows two applications to communicate with each other over the internet

3.	What are the advantages of containerized Machine learning applications?	1/1 point		
	Portability, flexibility, and reduced development and deployment time.			
	Always more compatible			
	Always use fewer resources			
	Always less complex			
	 Correct There are several advantages to containerized machine learning applications, including: 			
	 Increased portability and flexibility - Containers can be easily moved between different environments, making testing and deploying machine learning applications in various settings easy. Improved resource utilization - Containers allow for more efficient use of resources, like multiple applications running on a single server or cluster of servers. Isolation and security - Containers isolate applications from each other and the underlying operating system, providing an additional layer of security. Reduced development and deployment time - Containers are quick to create and deploy, making it possible to iterate rapidly on machine learning applications. 			
4.	What are the advantages of using ONNX for model interoperability?	1 / 1 point		
	C Lower complexity			
	 Universal compatibility 			
	Open standard supported by many tools and frameworks.			
	Always supported			
	 Correct There are several advantages to using ONNX for model interoperability: 1. ONNX is an open standard supported by many tools and frameworks. 2. ONNX models can be easily exported from one framework to another, allowing you to use the best tool for each task. 3. ONNX models are portable and can be deployed on various devices and platforms. 			

4. ONNX provides a consistent interface for model development, so you can easily switch between frameworks as your needs change.

5.	What are the	he use cases f	for edge	e-based	l machine	learning mod	lels	?
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1/1 point

IoT devices

Sensitive data

Constantly changing data

Large machine-learning models

✓ Correct

There are many potential use cases for edge-based machine learning models. For example, these models could improve the accuracy of predictions made by IoT devices or provide real-time feedback to users based on their interactions with a system. Additionally, edge-based machine learning models could be used to monitor and optimize the performance of industrial equipment. For example, to automatically detect and diagnose problems with machinery.

6. Which of the following is a common use case for DataOps?

1/1 point

Managing application dependencies

Streamlining data management, processing, and analytics workflows

Website design

O Software development

⊘ Correct

DataOps is a set of practices that aims to streamline data management, processing, and analytics workflows by applying principles from DevOps, Agile, and Lean methodologies. This includes improving collaboration, automating processes, and continuously monitoring and improving data pipelines.

7.	What is the primary purpose of monitoring in MLOps?	1 / 1 point
	Creating and managing databases	
	O Debugging code	
	Managing application dependencies	
	 Ensuring model performance, tracking model drift, and maintaining data quality 	
	Correct The primary purpose of monitoring in MLOps is to ensure that machine learning models are performing as expected, track model drift, and maintain data quality. Monitoring can help identify issues early, allowing teams to take corrective action before problems become critical.	
8.	Which of the following is NOT a part of an MLOps pipeline?	1 / 1 point
	O Data preprocessing	
	Web application development	
	O Model deployment	
	Model training	
	Correct Web application development is not a part of an MLOps pipeline. While web applications may be used to interact with machine learning models, the development of the web application itself is not a part of MLOps.	
9.	What is the role of Data Version Control (DVC) in a DataOps pipeline?	1/1 point
	Tracking and versioning datasets and machine learning models	
	O Creating and managing databases	
	Managing application dependencies	
	O Debugging code	
	⊘ Correct	

Data Version Control (DVC) is a version control system for data science and machine learning projects. Its primary role in a DataOps pipeline is to track and version datasets and machine learning models, making it easier to reproduce experiments and share data and models with teammates.

10. What is a key benefit of using infrastructure as code (IaC) in DevOps pipelines?	1/1 point
O Debugging code	
O Developing machine learning models	
Managing application dependencies	
Consistent, reproducible, and version-controlled infrastructure	

✓ Correct

A key benefit of using infrastructure as code (IaC) in DevOps pipelines is the ability to create consistent, reproducible, and version-controlled infrastructure. This allows for easier management, provisioning, and deployment of resources, as well as better collaboration among team members.