To pass 80% or

Grade

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Latest Submission

received 100% higher **Grade** 100% Go to next item **1.** What is the primary purpose of DevOps? 1/1 point The primary purpose of DevOps is to increase the speed and quality of software development while also reducing costs. Provide reporting to management To implement the Scrum process in an organization. Increase the skill of your existing team (\checkmark) Correct DevOps is a set of practices that combines software development (Dev) and information technology operations (Ops) to shorten the time it takes to deliver features and updates to customers.

What is an excellent example of the fundamental processes necessary to implement MLOps?Model TuningModel Selection

Feature Engineering
 Clear understanding of your organization's goals for using machine learning.

⊘ Correct

An excellent example of the fundamental processes necessary to implement MLOps would be establishing a clear understanding of your organization's goals for using machine learning. Once you understand,

you can develop the strategies and infrastructure needed to support your machine learning models. This process can include setting up a data pipeline, establishing a model training and testing process, and deploying your models into a production environment.

3.	What is a Feature Store?	1/1 point
	O Data Warehouse	
	 A Feature Store is a database that stores feature machine learning models can use. 	
	Object Storage	
	Relational Database	
	Correct A Feature Store stores feature extracted from data sources and components generated by feature engineering processes.	
4.	What is Model Registery?	1 / 1 point
	Git Repo	
	Mercurial Repo	
	A database that stores machine learning models.	
	SVN Repo	
	Correct A Model Registry is a database that stores machine learning models—a Model Registry stores models trained on data and models generated by model development processes.	
5.	What are best practices for Operationalizing a Microservice?	1/1 point
	Tight Coupling	
	Untested application	

6.

55 III 1 1 1 2 0 p 5		,,
● Well-de	designed and well-tested with monitoring and	l instrumentation.
O Monoli	lithic application	
⊘ Corre	ect re are a few best practices for operationalizing	g a microservice:
•	Make sure your microservice is well-designed before deploying it.	ed and well-tested
•	Make sure you plan how you will update ar microservice.	nd deploy your
•	Make sure that you have a way to roll back microservice if necessary.	changes to your
•	Make sure that you have a way to scale you necessary.	r microservice if
•	Make sure that you have a way to monitor y errors and performance issues.	our microservice for
What is the	e primary goal of Continuous Integration (CI)	in an MLOps workflow? 1/1 point
10 auto	tomate the process of deploying the final mod	del into production.
To mor	onitor the performance of deployed models a users.	nd collect feedback
	tomatically build, test, and validate code char troduce new issues.	nges to ensure they do
O To mar	anage the storage and versioning of datasets a	and models.
	ect option is correct. Continuous Integration (CI)	

This option is correct. Continuous Integration (CI) aims to catch and address issues early by automatically building, testing, and validating code changes as they are introduced, improving overall code quality and reducing the risk of new issues.

7. What is the purpose of Data Versioning in MLOps?

1/1 point

	To ensure that the model's code is free from bugs and security vulnerabilities.	
	O To streamline the deployment process for machine learning models.	
	To track and manage changes to datasets and facilitate reproducibility of experiments.	
	O To monitor the performance of deployed models and collect feedback from users.	
	Correct This option is correct. Data Versioning is used to track and manage changes to datasets, which helps facilitate reproducibility of experiments and collaboration among team members. This makes it easier to trace the impact of changes and ensure consistency across different stages of the MLOps pipeline.	
8.	What role does Continuous Integration (CI) play in an MLOps workflow?	1 point
	Continuously deploying machine learning models to production.	
	Tracking and managing changes to datasets.	
	Automatically building, testing, and validating code changes to ensure quality and consistency.	
	Monitoring the performance of deployed models and collecting user feedback.	
	Correct This option is correct. Continuous Integration (CI) is an essential component of an MLOps workflow that involves automatically building, testing, and validating code changes to ensure quality and consistency. This helps prevent the introduction of bugs or security vulnerabilities and promotes collaboration among team members.	
9.	Which of the following best describes the purpose of Feature Stores in MLOps? 1/ To store and manage machine learning model artifacts.	/ 1 point

To centralize the storage, management, and sharing of features for machine learning models.	
To monitor the performance of deployed machine learning models.	
To automate the process of training machine learning models.	
Correct This option is correct. Feature Stores are designed to centralize the storage, management, and sharing of features for machine learning models. They help ensure consistency and reusability of features across different models and teams, reducing the risk of data leakage and improving overall efficiency.	
10. What is the main goal of Continuous Integration (CI) in an MLOps context?	1/1 point
To track the performance of deployed machine learning models.	
To deploy machine learning models to production automatically.	
To validate the integration of new code changes and ensure they do not break existing functionality.	
To store and manage machine learning model artifacts.	
⊘ Correct	

This option is correct. In an MLOps context, Continuous Integration (CI) aims to validate the integration of new code changes and ensure they do not break existing functionality. CI systems automatically build, test, and validate new code changes to catch issues early in the development process.