Grade received 100% To pass 80% or higher

1. Machine learning pipelines are created as a way to iterate over the ML workflow quickly with less handof reduced manual efforts. This is done by automating the tasks and orchestrating the sequence of task exe What is the on-going set of tasks that are performed after a model is deployed with a pipeline?	
O Data Tasks	
Model Deployment Tasks	
Model Building Tasks	
Model Monitoring Tasks	
Correct Correct! The model monitoring tasks are the on-going set of tasks performed after the model is de by the pipeline.	ployed
 One keypoint in building an effective pipeline is establishing traceability of artifacts. Which of the following reasons why traceability is important. (choose all that apply) 	ing is/are 1/1 point
☐ Traceability slows down model deployment.	
Traceability provides better visibility and support.	
Correct Correct! With traceability you have a managed view into how the pipeline artifacts were created.	
☐ Traceability allows you to manage end-to-end automation of the pipeline.	
Traceability ensures easy recovery of any resource or artifact.	
Correct Correct! Every step in the pipeline is recorded and detailed logging information is available for traceability. Hence, recovery of resources and artifacts are easy.	
3. Data lakes are enterprise storage solutions which can host virtually any amount of data files. What are so reason(s) for the establishment of a governed data lake recommended in the ML pipeline? (Select all that Ensures traceability for the data	
Correct	
Correct! There is improved traceability when using a data lake as we can directly track the data use practitioners for their data science projects.	ed by
 □ Decreases model training time by 50% ☑ Decreases the wait time to begin model development 	
 Correct Correct! Data Scientists don't have to wait for dataset collection, long approvals, security clearance They can just go straight to feature engineering and model building. 	e etc.
✓ Improves retraining workflows	
✓ Correct	
Correct! Retraining workflows are easier to support when using data lakes.	
 True or False: In the ML pipeline, all inputs and artifacts that are produced as part of an automated task has versions associated with them. True 	have 1/1 point
○ False	
Correct Correct! Versioning inputs and outputs of each step in the workflow ensures traceability. Some typ versioning include data, code, and runtime versioning.	es of
In the data tasks, several validation tasks can be incorporated into the machine learning pipeline and au to improve quality. What are some of these validation tasks? (Choose all that apply)Data schema	tomated 1/1 point
Correct Correct! This automated check ensures that the data structure and schema that's coming from the what's expected.	e input is
■ Hyper-parameter Tuning✓ Detection of statistical data bias	
Correct! Automated checks to detect statistical data bias can be included as a step within the pipe	line.
✓ Data quality checks	
✓ Correct	
Correct! Data quality issues can be found here by implementing automated steps that gather statis about your input data and ensuring the data complies with specific data-quality guidelines.	stics
6. The Model Registry is a central store to manage model metadata and model artifacts. What other information	ation can 1/1 point
be retrieved from the model registry? (choose all that apply)	1/1 point
Which model versions may or may not be deployed in production.	
Correct Correct! It provides information about the model version that was deployed - as well as the enviro the model was deployed into.	nment
✓ Provides traceability and auditability	
Correct! In the model registry you can easily view information about model lineage and traceabilit	y.
 Steps to build, train, and deploy a models in Amazon SageMaker Pipelines Includes a collection of built-in CI/CD templates for popular pipelines 	
7. Someone inadvertently deletes a live endpoint without knowing exactly how it was built. What functions ML pipeline makes it possible to retrieve the deployed model?	ality in the 1/1 point
Artifact and lineage tracking	
ML workflow orchestration	
Feature store Artifacts	
 ✓ Artifacts ✓ Correct 	
Correct Correct! Artifact and lineage tracking provide the operational capabilities needed to reproduce a d	leleted

model.