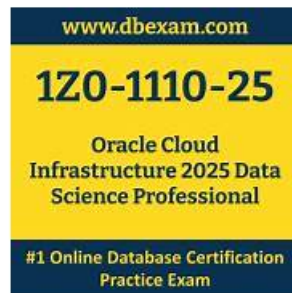


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Oracle 1z0-1110-25 Exam Syllabus Topics:

Topic	Details

Topic 1	• Apply MLOps Practices: This domain targets the skills of Cloud Data Scientists and focuses on applying MLOps within the OCI ecosystem. It covers the architecture of OCI MLOps, managing custom jobs, leveraging autoscaling for deployed models, monitoring, logging, and automating ML workflows using pipelines to ensure scalable and production-ready deployments.
Topic 2	• Implement End-to-End Machine Learning Lifecycle: This section evaluates the abilities of Machine Learning Engineers and includes an end-to-end walkthrough of the ML lifecycle within OCI. It involves data acquisition from various sources, data preparation, visualization, profiling, model building with open-source libraries, Oracle AutoML, model evaluation, interpretability with global and local explanations, and deployment using the model catalog.
Topic 3	• Use Related OCI Services: This final section measures the competence of Machine Learning Engineers in utilizing OCI-integrated services to enhance data science capabilities. It includes creating Spark applications through OCI Data Flow, utilizing the OCI Open Data Service, and integrating other tools to optimize data handling and model execution workflows.
Topic 4	• OCI Data Science - Introduction & Configuration: This section of the exam measures the skills of Machine Learning Engineers and covers foundational concepts of Oracle Cloud Infrastructure (OCI) Data Science. It includes an overview of the platform, its architecture, and the capabilities offered by the Accelerated Data Science (ADS) SDK. It also addresses the initial configuration of tenancy and workspace setup to begin data science operations in OCI.
Topic 5	• Create and Manage Projects and Notebook Sessions: This part assesses the skills of Cloud Data Scientists and focuses on setting up and managing projects and notebook sessions within OCI Data Science. It also covers managing Conda environments, integrating OCI Vault for credentials, using Git-based repositories for source code control, and organizing your development environment to support streamlined collaboration and reproducibility.

Oracle Cloud Infrastructure 2025 Data Science Professional Sample Questions (Q31-Q36):

NEW QUESTION # 31

You are a data scientist working for a utilities company. You have developed an algorithm that detects anomalies from a utility reader in the grid. The size of the model artifact is about 2 GB, and you are trying to store it in the model catalog. Which THREE interfaces could you use to save the model artifact into the model catalog?

- A. Console
- B. Accelerated Data Science (ADS) Software Development Kit (SDK)
- C. ODSC CLI
- D. Git CLI
- E. Oracle Cloud Infrastructure (OCI) Command Line Interface (CLI)
- F. OCI Python SDK

Answer: A,B,F

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Identify interfaces to save a 2 GB model to the Model Catalog.

* Evaluate Options:

* A: OCI CLI-Supports Data Science tasks-possible but not primary.

* B: ADS SDK-Designed for model catalog ops-correct.

* C: ODSC CLI-Not standard; likely typo for OCI CLI.

* D: Console-GUI for catalog uploads-correct.

* E: OCI Python SDK-Programmatic catalog access-correct.

* F: Git CLI-Version control, not catalog-related.

* Reasoning: B, D, E are OCI's primary interfaces; A is valid but less emphasized.

* Conclusion: B, D, E are correct (A plausible but not top-tier).

OCI documentation lists "ADS SDK (B), OCI Console (D), and OCI Python SDK (E) as primary methods to save models to the

Model Catalog." OCI CLI (A) works but isn't highlighted, C isn't real, and F is unrelated- B, D, E are the standard trio. Oracle Cloud Infrastructure Data Science Documentation, "Model Catalog Interfaces".

NEW QUESTION # 32

You have created a conda environment in your notebook session. This is the first time you are working with published conda environments. You have also created an Object Storage bucket with permission to manage the bucket. Which TWO commands are required to publish the conda environment?

- A. `conda activate /home/datascience/conda/<SLUG>`
- **B. `odsc conda publish --slug <SLUG>`**
- C. `odsc conda list --override`
- D. `odsc conda create --file manifest.yaml`
- **E. `odsc conda init --bucket_namespace <NAMESPACE> --bucket_name <BUCKET>`**

Answer: B,E

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Publish a conda env to Object Storage.

* Process: Initialize bucket config, then publish env.

* Evaluate Options:

* A: Publishes env with slug-correct final step.

* B: Lists envs-unrelated to publishing.

* C: Sets bucket details-required setup-correct.

* D: Creates env-not publishing.

* E: Activates env-not for sharing.

* Reasoning: C sets up, A executes-standard workflow.

* Conclusion: A and C are correct.

OCI documentation states: "To publish a conda environment, first run `odsc conda init` (C) with bucket namespace and name, then `odsc conda publish` (A) with a slug to upload to Object Storage." B, D, and E serve other purposes-only A and C are required per OCI's process.

Oracle Cloud Infrastructure Data Science CLI Reference, "Publishing Conda Environments".

NEW QUESTION # 33

Why is data sampling useful for data scientists?

- A. It reduces the amount of data storage space that's required for data science applications.
- **B. It enables them to use a representative subset of data to build accurate analytical models more quickly.**
- C. It lets them analyze datasets in small batches to reduce their use of system resources.

Answer: B

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Determine the primary benefit of data sampling.

* Define Sampling: Selecting a subset of data to represent the whole-used in ML/statistics.

* Evaluate Options:

* A: Small batches reduce resources-True but not the main purpose.

* B: Reduces storage-Incidental, not the goal.

* C: Representative subset for faster, accurate models-Core purpose of sampling.

* Reasoning: Sampling speeds up analysis while maintaining accuracy (e.g., training on 10% of data).

* Conclusion: C is correct.

OCI documentation states: "Data sampling allows data scientists to use a representative subset of a large dataset to build accurate models more quickly, especially when processing full datasets is impractical." A focuses on resources (secondary), B on storage (not primary)-only C captures the analytical intent per OCI's AutoML sampling approach.

Oracle Cloud Infrastructure Data Science Documentation, "Data Sampling Techniques".

NEW QUESTION # 34

You are a data scientist working for a manufacturing company. You have developed a forecasting model to predict the sales demand in the upcoming months. You created a model artifact that contained custom logic requiring third-party libraries. When you deployed the model, it failed to run because you did not include all the third-party dependencies in the model artifact. What file should be modified to include the missing libraries?

- A. runtime.yaml
- B. requirements.txt
- C. score.py
- D. model_artifact_validate.py

Answer: A

Explanation:

Detailed Answer in Step-by-Step Solution:

- * Objective: Specify third-party libraries for model deployment.
- * Understand Artifacts: runtime.yaml defines runtime; score.py handles logic.
- * Evaluate Options:
- * A: Not a standard file-incorrect.
- * B: Inference code-not for dependencies.
- * C: Defines conda env with dependencies-correct.
- * D: Pip list-not used in OCI conda deployments.
- * Reasoning: runtime.yaml points to a conda env with all libraries.
- * Conclusion: C is correct.

OCI documentation states: "In runtime.yaml, specify the conda environment slug (e.g., ENVIRONMENT_SLUG: custom_env) containing all third-party libraries required by the model." score.py (B) is for logic, requirements.txt (D) isn't OCI-standard, and A doesn't exist-C fixes the issue.

Oracle Cloud Infrastructure Data Science Documentation, "Model Deployment - runtime.yaml".

NEW QUESTION # 35

What is the minimum active storage duration for logs used by Logging Analytics to be archived?

- A. 30 days
- B. 10 days
- C. 60 days
- D. 15 days

Answer: A

Explanation:

Detailed Answer in Step-by-Step Solution:

- * Objective: Determine minimum log storage duration before archiving in Logging Analytics.
- * Understand Logging Analytics: Logs are active before archival.
- * Evaluate Options:
- * A: 60 days-Too long for minimum.
- * B: 10 days-Too short.
- * C: 30 days-Standard minimum-correct.
- * D: 15 days-Not OCI's default.
- * Reasoning: 30 days is OCI's documented minimum active period.
- * Conclusion: C is correct.

OCI documentation states: "Logs in Logging Analytics remain active for a minimum of 30 days (C) before archiving, ensuring availability for analysis." B and D are shorter, A is longer-only C matches OCI's policy.

Oracle Cloud Infrastructure Logging Analytics Documentation, "Log Retention".

NEW QUESTION # 36

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