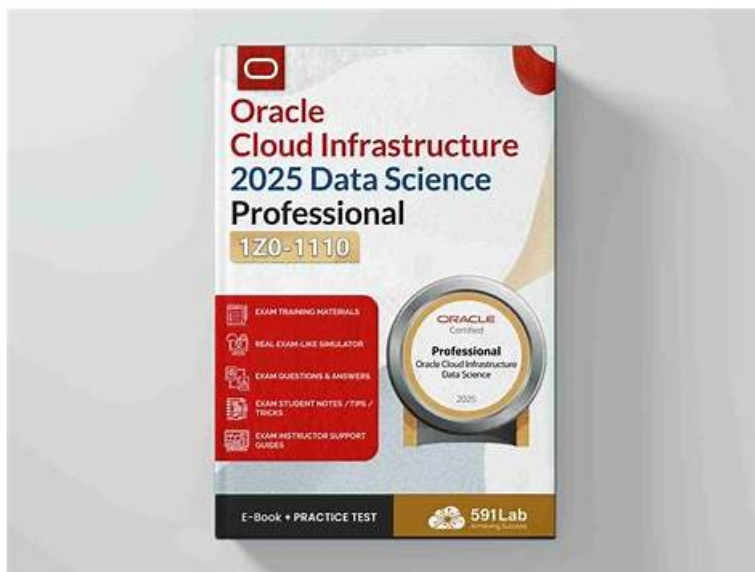


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Oracle 1z0-1110-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 2	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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 4	<ul style="list-style-type: none"> • 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 5	<ul style="list-style-type: none"> • 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 (Q142-Q147):

NEW QUESTION # 142

Which stage in the machine learning life cycle helps in identifying the imbalance present in the data?

- **A. Data Exploration**
- B. Data Access
- C. Data Monitoring
- D. Data Modeling

Answer: A

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Find the stage where data imbalance (e.g., skewed classes) is identified.

* Understand Stages:

* Data Modeling: Training models-assumes data is prepared.

* Data Monitoring: Post-deployment tracking-not for initial analysis.

* Data Exploration: Analyzing data properties (e.g., distributions)-key for imbalance.

* Data Access: Retrieving data-no analysis yet.

* Evaluate Options:

* A: Modeling uses data, doesn't detect imbalance-incorrect.

* B: Monitoring tracks performance, not initial data issues-incorrect.

* C: Exploration (e.g., via pandas) reveals imbalances-correct.

* D: Access is just retrieval-incorrect.

* Reasoning: Imbalance is assessed during exploration (e.g., class counts).

* Conclusion: C is correct.

OCI documentation notes: "Data Exploration involves analyzing the dataset to understand its characteristics, such as identifying class imbalances or missing values, using tools like ADS SDK or Jupyter notebooks." Modeling (A) and Monitoring (B) occur later, while Access (D) is pre-analysis-only Exploration (C) fits this role.

Oracle Cloud Infrastructure Data Science Documentation, "Data Exploration Stage".

NEW QUESTION # 143

Which OCI Data Science interaction method can function without the need of scripting?

- A. CLI
- **B. OCI Console**
- C. Language SDKs
- D. REST APIs

Answer: B

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Identify the OCI Data Science interaction method that doesn't require scripting.

* Understand Interaction Methods: OCI provides multiple ways to interact with Data Science services- some are GUI-based, others script-based.

* Evaluate Options:

* A. OCI Console: A web-based graphical interface allowing users to manage resources (e.g., create notebook sessions, deploy models) via point-and-click-no scripting needed.

* B. CLI: Command Line Interface requires writing commands (scripts) to execute tasks (e.g., oci data-science notebook-session create).

* C. Language SDKs: Software Development Kits (e.g., Python SDK) require coding to interact programmatically (e.g., oci.data_science.DataScienceClient).

* D. REST APIs: Application Programming Interfaces require scripted HTTP requests (e.g., using curl or a programming language).

* Reasoning: Only the OCI Console (A) offers a no-code, user-friendly interface, while B, C, and D rely on scripting or programming.

* Conclusion: A is the correct answer as it eliminates the need for scripting.

The OCI Console is described in the documentation as "a browser-based interface that allows users to manage OCI Data Science resources, such as creating notebook sessions or jobs, without writing code or scripts." In contrast, the CLI (B) requires command-line scripts, SDKs (C) need programming (e.g., Python), and REST APIs (D) involve scripted API calls. The Console's GUI distinguishes it as the only option functioning without scripting, aligning with Oracle's design for accessibility to non-programmers. Oracle Cloud Infrastructure Data Science Documentation, "Getting Started with OCI Console" section.

NEW QUESTION # 144

As a data scientist, you are tasked with creating a model training job that is expected to take different hyperparameter values on every run. What is the most efficient way to set those parameters with Oracle Data Science Jobs?

- A. Create your code to expect different parameters as command-line arguments, and create a new job every time you run the code
- **B. Create your code to expect different parameters either as environment variables or as command-line arguments, which are set on every job run with different values**
- C. Create a new job every time you need to run your code and pass the parameters as environment variables
- D. Create a new job by setting the required parameters in your code, and create a new job for every code change

Answer: B

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Efficiently manage varying hyperparameters in OCI Data Science Jobs.

* Understand OCI Jobs: Jobs execute predefined tasks with configurable inputs (e.g., env vars, args).

* Evaluate Options:

* A: New job per run with env vars-Redundant job creation, inefficient.

* B: New job per run with args-Similarly inefficient due to repeated setup.

* C: Hardcode params, new job per change-Highly inefficient, requires code edits.

* D: Single job, flexible params via env vars or args-Efficient, reusable-correct.

* Reasoning: D minimizes job creation, allows runtime flexibility via configuration-best practice.

* Conclusion: D is correct.

OCI documentation states: "For Jobs with varying hyperparameters, write code to accept environment variables or command-line arguments (D), then configure these per Job Run using the OCI Console or SDK- most efficient approach." Options A, B, and C involve unnecessary job proliferation or code changes-only D aligns with OCI's design for parameterized runs.

Oracle Cloud Infrastructure Data Science Documentation, "Configuring Job Runs with Parameters".

NEW QUESTION # 145

Which Oracle Cloud Service provides restricted access to target resources?

- **A. Bastion**
- B. SSL Certificate
- C. Internet Gateway
- D. Load Balancer

Answer: A

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Identify the OCI service for restricted resource access.

* Evaluate Options:

* A: Bastion-Secure, temporary access to resources-correct.

* B: Internet Gateway-Public access, not restricted.

* C: Load Balancer-Distributes traffic, not access control.

* D: SSL Certificate-Secures comms, not access.

* Reasoning: Bastion limits access (e.g., SSH) to specific targets.

* Conclusion: A is correct.

OCI documentation states: "OCI Bastion (A) provides restricted, audited access to target resources like instances, typically via SSH." B, C, and D don't restrict-only A fits per OCI's security services.

Oracle Cloud Infrastructure Bastion Documentation, "Overview".

NEW QUESTION # 146

Which of these is a unique feature of the published conda environment?

- **A. Allows you to save the conda environment to an Object Storage Bucket**
- B. Provides a comprehensive environment to solve business use cases
- C. Provides availability on network session reactivation
- D. Allows you to save the conda environment in a block volume

Answer: A

Explanation:

Detailed Answer in Step-by-Step Solution:

* Understand Published Conda Environments: In OCI Data Science, these are custom conda environments shared across users via Object Storage.

* Evaluate Options:

* A: Vague-All conda environments can address use cases; not unique to "published."

* B: Incorrect-Availability on reactivation applies to session persistence, not publishing.

* C: Correct-Publishing saves the environment to Object Storage for sharing/reuse.

* D: Incorrect-Block volumes store session data, not published environments.

* Reasoning: The unique aspect of "published" environments is their storage in Object Storage (via odsc conda publish), enabling team access.

* Conclusion: C is the distinctive feature.

The OCI Data Science documentation highlights that "published conda environments are saved to an OCI Object Storage Bucket, allowing them to be shared across notebook sessions and users." This distinguishes C from A (generic), B (session-related), and D (block volume is for session state, not publishing). Publishing to Object Storage is the defining trait per Oracle's design.

Oracle Cloud Infrastructure Data Science Documentation, "Managing Conda Environments - Publishing" section.

NEW QUESTION # 147

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