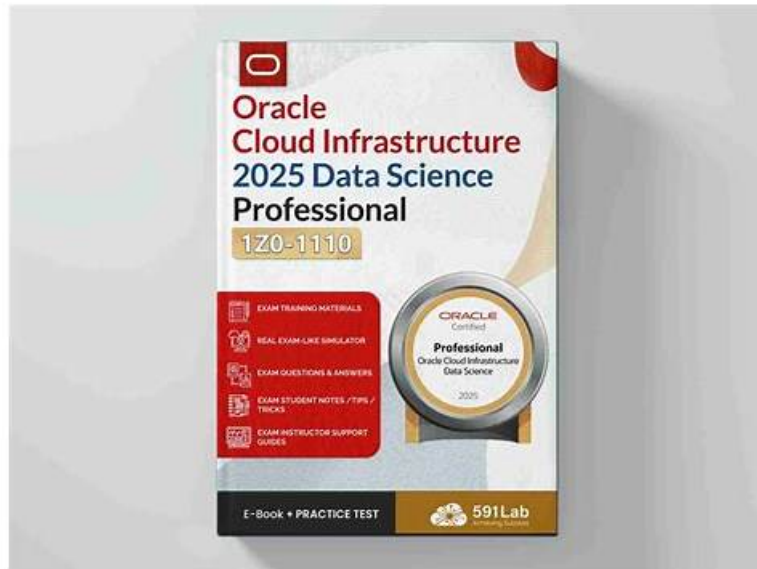


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Oracle 1z0-1110-25 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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 3	• 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 4	• 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	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.
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Oracle Cloud Infrastructure 2025 Data Science Professional Sample Questions (Q30-Q35):

NEW QUESTION # 30

Which statement about logs for Oracle Cloud Infrastructure Jobs is true?

- A. Integrating data science jobs resources with logging is mandatory
- B. Logs are automatically deleted when the job and job run is deleted
- C. All stdout and stderr are automatically stored when automatic log creation is enabled
- D. Each job run sends outputs to a single log for that job

Answer: C

Explanation:

Detailed Answer in Step-by-Step Solution:

- * Objective: Identify a true statement about OCI Jobs logging.
- * Understand Logging: Jobs can log stdout/stderr to OCI Logging service.
- * Evaluate Options:
- * A: False-Each run has its own log, not a single job log.
- * B: False-Logging is optional, not mandatory.
- * C: True-When enabled, stdout/stderr are auto-captured.
- * D: False-Logs persist unless explicitly deleted.
- * Reasoning: C matches OCI's automatic logging feature.
- * Conclusion: C is correct.

OCI documentation states: "When automatic log creation is enabled for Data Science Jobs, all stdout and stderr outputs are captured and stored in the OCI Logging service." A is incorrect (per-run logs), B is optional, and D contradicts log retention-only C is accurate.

Oracle Cloud Infrastructure Data Science Documentation, "Jobs Logging".

NEW QUESTION # 31

Which two statements are true about published conda environments?

- A. The `odsc conda init` command is used to configure the location of published conda environments
- B. Your notebook session acts as the source to share published conda environments with team members
- C. They are curated by Oracle Cloud Infrastructure (OCI) Data Science
- D. You can only create a published conda environment by modifying a Data Science conda environment
- E. In addition to service job run environment variables, conda environment variables can be used in Data Science Jobs

Answer: A,E

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Identify true statements about published conda environments in OCI.

* Understand Published Conda: Custom envs shared via Object Storage.

* Evaluate Options:

* A: False-Users create them, not OCI-curated.

* B: True-odsc conda init sets up access to published envs.

* C: False-Object Storage, not notebook, is the source.

* D: False-Can create from scratch, not just modifications.

* E: True-Conda env vars extend job configs.

* Reasoning: B configures access, E enhances flexibility-match OCI behavior.

* Conclusion: B and E are correct.

OCI documentation states: "odsc conda init (B) configures the bucket for published conda environments, and Jobs can use conda environment variables (E) alongside service vars." A misattributes curation, C misplaces source, and D limits creation-only B and E are true per OCI's conda management.

Oracle Cloud Infrastructure Data Science Documentation, "Published Conda Environments".

NEW QUESTION # 32

Using Oracle AutoML, you are tuning hyperparameters on a supported model class and have specified a time budget. AutoML terminates computation once the time budget is exhausted. What would you expect AutoML to return in case the time budget is exhausted before hyperparameter tuning is completed?

- A. A random hyperparameter configuration
- B. The last generated hyperparameter configuration
- **C. The current best-known hyperparameter configuration**
- D. A hyperparameter configuration with a minimum learning rate

Answer: C

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Predict AutoML's output when time runs out during tuning.

* Understand AutoML Tuning: Iteratively tests hyperparameters, tracks best results.

* Evaluate Options:

* A: Best-known config-Logical, reflects optimization goal-correct.

* B: Last config-Ignores prior better results-incorrect.

* C: Minimum learning rate-Arbitrary, not performance-based.

* D: Random-Defeats tuning purpose.

* Reasoning: AutoML prioritizes the best config found within the budget.

* Conclusion: A is correct.

OCI AutoML documentation states: "If the time budget expires, AutoML returns the best hyperparameter configuration (A) identified during tuning based on performance metrics." Last (B), minimum (C), or random (D) configs aren't selected-only A aligns with OCI's optimization strategy.

Oracle Cloud Infrastructure AutoML Documentation, "Hyperparameter Tuning - Time Budget".

NEW QUESTION # 33

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

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

Answer: C

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 # 34

Which Oracle Cloud Infrastructure (OCI) Data Science policy is invalid?

- A. Allow group DataScienceGroup to use data-science-model-sessions in compartment DataScience
- B. Allow dynamic-group DataScienceDynamicGroup to manage data-science-projects in compartment DataScience
- C. Allow group DataScienceGroup to use virtual-network-family in compartment DataScience
- D. Allow dynamic-group DataScienceDynamicGroup to manage data-science-family in compartment DataScience

Answer: A

Explanation:

Detailed Answer in Step-by-Step Solution:

- * Objective: Spot the invalid OCI IAM policy.
- * Understand Policies: Use verbs (e.g., use, manage) and resource types.
- * Evaluate Options:
 - * A: Valid-virtual-network-family is a resource type.
 - * B: Invalid-No data-science-model-sessions resource type; likely meant data-science-models.
 - * C: Valid-data-science-projects is correct.
 - * D: Valid-data-science-family aggregates Data Science resources.
- * Reasoning: B uses a nonexistent resource type-error in syntax.
- * Conclusion: B is incorrect.

OCI IAM documentation lists valid resource types: "data-science-models, data-science-projects, data-science-family-but not data-science-model-sessions (B)." A, C, D are correct-B is invalid due to this typo /misunderstanding.

Oracle Cloud Infrastructure IAM Documentation, "Data Science Resource Types".

NEW QUESTION # 35

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