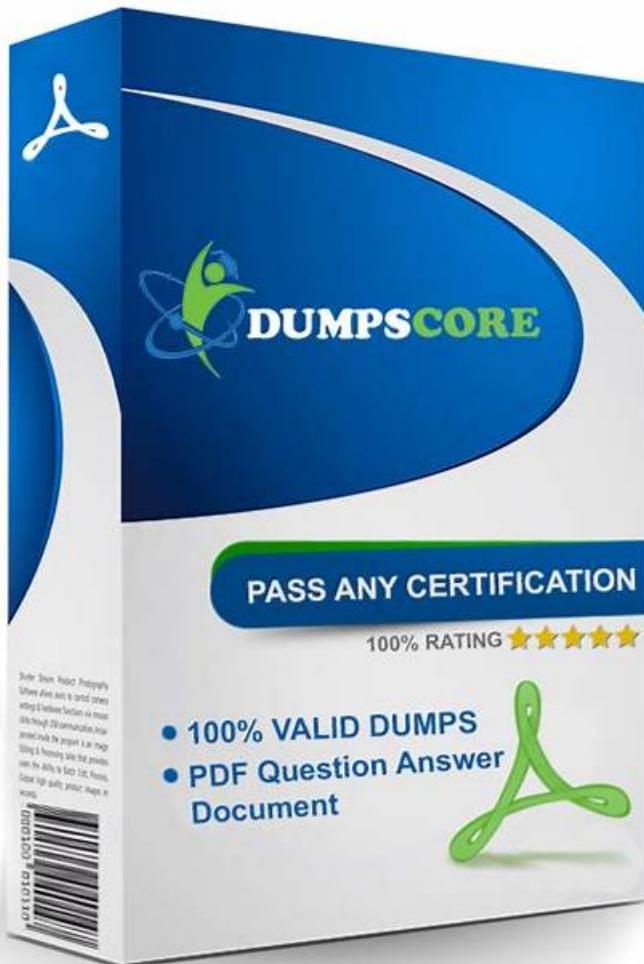


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Oracle 1z0-1110-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> 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	<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.
Topic 5	<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.

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Oracle Cloud Infrastructure 2025 Data Science Professional Sample Questions (Q111-Q116):

NEW QUESTION # 111

Which Web Application Firewall (WAF) service component must be configured to allow, block, or log network requests when they meet specified criteria?

- A. Web Application Firewall policy
- B. Protection rules**
- C. Origin
- D. Bot Management

Answer: B

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Identify the WAF component that controls request actions based on criteria.

* Understand WAF Components:

* Protection Rules: Define conditions and actions (e.g., allow, block, log).

* Bot Management: Handles bot traffic, not general request rules.

* Origin: Backend server endpoint, not rule-based.

* WAF Policy: Umbrella config, but rules specify actions.

* Evaluate Options:

- * A: Protection rules-Set specific criteria and actions-correct.
- * B: Bot Management-Bot-specific, not general requests.
- * C: Origin-Defines source, not actions.
- * D: WAF policy-Broad config, not the granular rules.
- * Reasoning: Protection rules directly manage request behavior-fit the requirement.
- * Conclusion: A is correct.

OCI documentation states: "Protection rules (A) in WAF define conditions (e.g., IP, URL) and actions (allow, block, log) for incoming requests." Bot Management (B) targets bots, Origin (C) is a target server, and WAF Policy (D) encompasses rules but isn't the action specifier-only A aligns with OCI's WAF configuration.

Oracle Cloud Infrastructure WAF Documentation, "Protection Rules".

NEW QUESTION # 112

What is feature engineering in machine learning used for?

- A. To interpret ML models
- B. To perform parameter tuning
- C. To help understand the dataset features
- D. To transform existing features into new ones

Answer: D

Explanation:

Detailed Answer in Step-by-Step Solution:

- * Define Feature Engineering: It's the process of creating or modifying features to improve model performance.
- * Evaluate Options:
 - * A: Parameter tuning adjusts model hyperparameters (e.g., learning rate), not features.
 - * B: Model interpretation (e.g., SHAP values) explains predictions, not feature creation.
 - * C: Transforming features (e.g., normalizing, encoding) is the core of feature engineering-correct.
 - * D: Understanding features occurs during exploration, not engineering.
- * Reasoning: Feature engineering directly manipulates data inputs (e.g., converting timestamps to day-of- week), distinct from tuning or interpretation.
- * Conclusion: C is the precise definition.

OCI Data Science documentation defines feature engineering as "the process of transforming raw data into features that better represent the underlying problem to the predictive models, resulting in improved model accuracy." Examples include scaling or creating interaction terms, aligning with C. Other options (A, B, D) relate to different ML stages.

Oracle Cloud Infrastructure Data Science Documentation, "Feature Engineering Overview".

NEW QUESTION # 113

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 a new job by setting the required parameters in your code and create a new job for every code change
- B. Create a new job every time you need to run your code and pass the parameters as environment variables
- C. Create your code to expect different parameters as command-line arguments and create a new job every time you run the code
- D. 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

Answer: D

Explanation:

Detailed Answer in Step-by-Step Solution:

- * Objective: Efficiently vary hyperparameters in OCI Jobs.
- * Evaluate Options:
 - * A: New job per run-Wastes setup time.
 - * B: Code changes per job-Inefficient, error-prone.
 - * C: Flexible params per run-Efficient, reusable-correct.
 - * D: New job per run-Redundant effort.
- * Reasoning: C minimizes job creation, maximizes flexibility.

* Conclusion: C is correct.

OCI documentation states: "For varying hyperparameters, configure a single Job with code accepting environment variables or command-line arguments (C), set per run-most efficient." A and D over-create jobs, B ties params to code-only C optimizes. Oracle Cloud Infrastructure Data Science Documentation, "Job Parameterization".

NEW QUESTION # 114

Which type of file system does File Storage use?

- A. Paravirtualized
- B. NVMe SSD
- C. iSCSI
- D. NFSv3

Answer: D

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Identify the file system type for OCI File Storage.

* Understand File Storage: Network-attached storage in OCI.

* Evaluate Options:

* A: NFSv3-Network File System, used by File Storage-correct.

* B: iSCSI-Block storage protocol, not File Storage.

* C: Paravirtualized-Virtualization mode, not file system

* D: NVMe SSD-Hardware, not file system

* Reasoning: NFSv3 is OCI File Storage's protocol.

* Conclusion: A is correct.

OCI documentation states: "File Storage uses NFSv3 (A) as its file system protocol, providing shared storage across instances." B, C, and D are unrelated-only A aligns with OCI's File Storage design.

Oracle Cloud Infrastructure File Storage Documentation, "File System Protocol".

NEW QUESTION # 115

Which Oracle Accelerated Data Science (ADS) classes can be used for easy access to datasets from reference libraries and index websites, such as scikit-learn?

- A. SecretKeeper
- B. DatasetFactory
- C. ADSTuner
- D. DatasetBrowser

Answer: B

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Identify ADS class for accessing datasets (e.g., scikit-learn).

* Evaluate Options:

* A: DatasetBrowser-Not an ADS class.

* B: DatasetFactory-Loads datasets from sources like scikit-learn-correct.

* C: ADSTuner-Hyperparameter tuning, not data access.

* D: SecretKeeper-Manages credentials, not datasets.

* Reasoning: DatasetFactory simplifies dataset loading (e.g., DatasetFactory.open()).

* Conclusion: B is correct.

OCI documentation states: "DatasetFactory in ADS SDK provides methods to easily load datasets from libraries like scikit-learn or other sources (e.g., DatasetFactory.open('sklearn.datasets:load_iris'))." A isn't real, C tunes models, and D handles secrets-only B fits.

Oracle Cloud Infrastructure ADS SDK Documentation, "DatasetFactory".

NEW QUESTION # 116

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