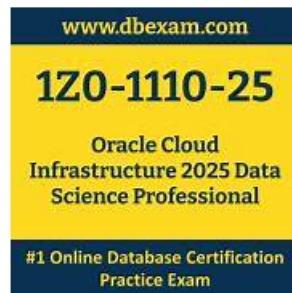


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Oracle 1z0-1110-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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 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.

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Oracle Cloud Infrastructure 2025 Data Science Professional Sample Questions (Q51-Q56):

NEW QUESTION # 51

Which of the following analytical and statistical techniques do data scientists commonly use?

- A. Clustering
- **B. All of the above**
- C. Classification
- D. Regression

Answer: B

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Identify common data science techniques.

* Define Techniques:

* Classification: Predicts categories (e.g., spam vs. not).

* Regression: Predicts continuous values (e.g., sales).

* Clustering: Groups data (e.g., customer segments).

* Evaluate Options:

* A, B, C: All are standard ML/statistical methods.

* D: Encompasses all-correct as they're widely used.

* Reasoning: These are foundational in data science workflows.

* Conclusion: D is correct.

OCI documentation lists "classification, regression, and clustering as core techniques in data science, supported by tools like ADS SDK and AutoML." All (D) are common per OCI's ML framework, not just subsets (A, B, C).

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

NEW QUESTION # 52

You are using Oracle Cloud Infrastructure (OCI) Anomaly Detection to train a model to detect anomalies in pump sensor data. How does the required False Alarm Probability setting affect an anomaly detection model?

- A. It is used to disable the reporting of false alarms

- B. It adds a score to each signal indicating the probability that it's a false alarm
- C. It determines how many false alarms occur before an error message is generated
- D. It changes the sensitivity of the model to detecting anomalies

Answer: D

Explanation:

Detailed Answer in Step-by-Step Solution:

- * Objective: Understand the effect of False Alarm Probability (FAP) in OCI Anomaly Detection.
- * Understand FAP: Controls false positive rate-threshold for anomaly flagging.
- * Evaluate Options:
- * A: Disable reporting-Incorrect; FAP sets sensitivity, not on/off.
- * B: Changes sensitivity-Correct; lower FAP = fewer false positives-correct.
- * C: Count-based error-Incorrect; not a counter.
- * D: Score per signal-Incorrect; FAP is a global setting.
- * Reasoning: FAP adjusts detection threshold-direct impact on sensitivity.
- * Conclusion: B is correct.

OCI documentation states: "False Alarm Probability (FAP) (B) adjusts the model's sensitivity in Anomaly Detection-lower values increase specificity, reducing false positives." A, C, and D misinterpret FAP's role- only B aligns with OCI's anomaly detection tuning.

Oracle Cloud Infrastructure Anomaly Detection Documentation, "FAP Settings".

NEW QUESTION # 53

You are a data scientist leveraging Oracle Cloud Infrastructure (OCI) Data Science to create a model and need some additional Python libraries for processing genome sequencing data. Which of the following THREE statements are correct with respect to installing additional Python libraries to process the data?

- A. You can only install libraries using yum and pip as a normal user
- B. You cannot install a library that's not preinstalled in the provided image
- C. OCI Data Science allows root privileges in notebook sessions
- D. You can install private or custom libraries from your own internal repositories
- E. You can install any open-source package available on a publicly accessible Python Package Index (PyPI) repository

Answer: B,D,E

Explanation:

Detailed Answer in Step-by-Step Solution:

- * Objective: Identify correct statements about installing Python libraries in OCI Data Science.
- * Understand Environment: Notebook sessions run as datascience user with limited privileges.
- * Evaluate Options:
- * A: False-Yum isn't available; pip is the primary tool.
- * B: True-Custom repos work with proper network config.
- * C: False-No root access; managed environment.
- * D: True-PyPI packages installable with internet (NAT Gateway).
- * E: False-You can install beyond preinstalled; likely meant opposite.
- * Reasoning: B and D are true; E's intent seems reversed (common exam error)-corrected to B, D.
- * Conclusion: B, D (assuming E typo).

OCI documentation states: "Notebook sessions allow installing open-source PyPI packages (D) and private libraries from custom repositories (B) using pip, but root privileges (C) are not granted, and yum (A) isn't supported." E contradicts capability-corrected, B and D are accurate.

Oracle Cloud Infrastructure Data Science Documentation, "Installing Python Libraries".

NEW QUESTION # 54

Which of the following programming languages are most widely used by data scientists?

- A. C and C++
- B. Python, R, and SQL
- C. Java and JavaScript

Answer: B

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Identify top languages for data science.

* Evaluate Options:

* A: C/C++-Low-level, less common for data tasks.

* B: Python (ML, libraries), R (stats), SQL (data)-Industry standards.

* C: Java (enterprise), JavaScript (web)-Not data-focused.

* Reasoning: B aligns with data science tools (e.g., pandas, ggplot).

* Conclusion: B is correct.

OCI documentation highlights "Python, R, and SQL as the most widely used languages in Data Science for modeling, analysis, and data querying." C/C++ (A) and Java/JS (C) are less prevalent-B matches OCI's notebook support and industry trends.

Oracle Cloud Infrastructure Data Science Documentation, "Supported Languages".

NEW QUESTION # 55

What is a common maxim about data scientists?

- A. They spend 80% of their time on failed analytics projects and 20% doing useful work.
- B. They spend 80% of their time analyzing data and 20% finding and preparing it.
- **C. They spend 80% of their time finding and preparing data and 20% analyzing it.**

Answer: C

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Identify a widely accepted maxim about data scientists' time allocation.

* Understand Data Science Workflow: Involves data collection, preparation, and analysis-time distribution is key.

* Evaluate Options:

* A: 80% on finding/preparing, 20% analyzing-Reflects the data wrangling challenge.

* B: 80% analyzing, 20% finding/preparing-Inverts the common perception.

* C: 80% on failed projects, 20% useful-Pessimistic, not a standard maxim.

* Reasoning: Industry consensus (e.g., "80/20 rule") emphasizes data prep as the bulk of effort due to messy real-world data.

* Conclusion: A is correct.

OCI Data Science documentation aligns with industry norms: "Data scientists typically spend 80% of their time finding, cleaning, and preparing data, and 20% on analysis and modeling, due to the complexity of raw data." B reverses this, and C isn't supported-only A reflects this widely cited maxim from sources like Forbes and OCI's practical guidance.

Oracle Cloud Infrastructure Data Science Documentation, "Data Science WorkflowOverview".

NEW QUESTION # 56

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