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Oracle 1z0-1110-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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"> 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"> 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.

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Oracle Cloud Infrastructure 2025 Data Science Professional Sample Questions (Q77-Q82):

NEW QUESTION # 77

After you have created and opened a notebook session, you want to use the Accelerated Data Science (ADS) SDK to access your data and get started with exploratory data analysis. From which TWO places can you access the ADS SDK?

- A. Oracle Big Data Service
- B. Conda environment in OCI Data Science
- C. Oracle Machine Learning
- D. Oracle Autonomous Data Warehouse
- E. Python Package Index (PyPI)

Answer: B,E

Explanation:

Detailed Answer in Step-by-Step Solution:

- * Objective: Locate sources for ADS SDK in OCI.
- * Understand ADS SDK: A Python library for Data Science tasks (e.g., EDA).
- * Evaluate Options:
 - * A: Big Data Service-Spark-focused, not ADS source.
 - * B: Machine Learning-Separate service, not ADS-related.
 - * C: Conda in OCI Data Science-Preinstalled ADS in notebook sessions.
 - * D: PyPI-Public source to install ADS (pip install oracle-ads).
 - * E: ADW-Database, not an SDK source.
- * Reasoning: C (preinstalled) and D (installable) are practical access points.
- * Conclusion: C and D are correct.

OCI documentation states: "The ADS SDK is available in OCI Data Science notebook sessions via preinstalled conda environments (C) and can be installed from PyPI (D) using pip install oracle-ads." Big Data (A), Machine Learning (B), and ADW (E) don't host ADS-only C and D apply.

Oracle Cloud Infrastructure Data Science Documentation, "ADS SDK Installation".

NEW QUESTION # 78

Which OCI service provides a managed Kubernetes service for deploying, scaling, and managing containerized applications?

- A. Oracle Cloud Infrastructure Streaming
- B. Oracle Cloud Infrastructure Container Engine for Kubernetes
- C. Oracle Cloud Infrastructure Load Balancing
- D. Oracle Cloud Infrastructure Container Registry

Answer: B

Explanation:

Detailed Answer in Step-by-Step Solution:

- * Objective: Identify OCI's managed Kubernetes service.
- * Evaluate Options:
 - * A: Container Registry-Stores images, not Kubernetes.
 - * B: Load Balancing-Network service, not Kubernetes.
 - * C: Container Engine (OKE)-Managed Kubernetes-correct.
 - * D: Streaming-Data streaming, not containers.
- * Reasoning: C is OCI's Kubernetes offering-OKE.
- * Conclusion: C is correct.

OCI documentation states: "OCI Container Engine for Kubernetes (OKE) (C) provides a managed service to deploy, scale, and manage containerized applications using Kubernetes." A, B, and D serve other purposes- only C matches per OCI's container services.

Oracle Cloud Infrastructure OKE Documentation, "Overview".

NEW QUESTION # 79

Which is NOT a part of Observability and Management Services?

- A. OCI Management Service
- B. Logging Analytics
- C. Event Services
- D. Logging

Answer: A

Explanation:

Detailed Answer in Step-by-Step Solution:

- * Objective: Identify the non-Observability and Management (O&M) service in OCI.
- * Understand O&M: Includes monitoring, logging, events tools.
- * Evaluate Options:
 - * A: Event Services-Triggers actions, part of O&M-correct.
 - * B: OCI Management Service-Not a defined O&M service-incorrect.
 - * C: Logging Analytics-Log analysis, O&M component-correct.
 - * D: Logging-Log collection, O&M component-correct.
- * Reasoning: B isn't listed in OCI's O&M suite-others are.
- * Conclusion: B is correct (not part of O&M).

OCI documentation lists "Observability and Management Services as including Event Services (A), Logging Analytics (C), and Logging (D)-'OCI Management Service' (B) is not a recognized component." B appears to be a misnomer-only A, C, D are O&M per OCI's service catalog.

Oracle Cloud Infrastructure Observability and Management Documentation, "Service Overview".

NEW QUESTION # 80

You are building a model and need input that represents data as morning, afternoon, or evening. However, the data contains a timestamp. What part of the Data Science lifecycle would you be in when creating the new variable?

- A. Model validation
- B. Model type selection

- C. Data access
- D. Feature engineering

Answer: D

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Locate the lifecycle stage for transforming timestamps into categories.

* Understand Lifecycle:

* Model Type Selection: Choosing algorithms-post-data prep.

* Model Validation: Evaluating performance-post-training.

* Data Access: Retrieving raw data-pre-transformation.

* Feature Engineering: Creating new features-correct.

* Evaluate Options:

* A: Too late-incorrect.

* B: Post-model-incorrect.

* C: Pre-transformation-incorrect.

* D: Feature creation-correct.

* Reasoning: Converting timestamps to time periods is feature engineering.

* Conclusion: D is correct.

OCI documentation states: "Feature engineering (D) transforms raw data, such as timestamps into categorical variables (e.g., morning/afternoon), to enhance model inputs." A, B, and C occur at different stages-only D fits OCI's lifecycle for this task.

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

NEW QUESTION # 81

For your next data science project, you need access to public geospatial images. Which Oracle Cloud service provides free access to those images?

- A. Oracle Big Data Service
- B. Oracle Analytics Cloud
- C. Oracle Cloud Infrastructure (OCI) Data Science
- D. Oracle Open Data

Answer: D

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Find the OCI service for free geospatial images.

* Evaluate Options:

* A: Big Data Service-Spark processing, not datasets.

* B: Analytics Cloud-Visualization, not data source.

* C: Data Science-ML platform, not dataset provider.

* D: Open Data-Free public datasets, including geospatial-correct.

* Reasoning: Open Data is OCI's public dataset hub.

* Conclusion: D is correct.

OCI documentation states: "Oracle Open Data provides free access to curated datasets, including geospatial images, for public use."

A, B, and C serve other purposes-only D delivers free geospatial data.

Oracle Cloud Infrastructure Open Data Documentation, "Dataset Offerings".

NEW QUESTION # 82

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