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Oracle 1z0-1110-25 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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 4	• 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 5	• 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.

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Oracle Cloud Infrastructure 2025 Data Science Professional Sample Questions (Q50-Q55):

NEW QUESTION # 50
You are attempting to save a model from a notebook session to the model catalog by using the Accelerated Data Science (ADS) SDK, with resource principal as the authentication signer, and you get a 404 authentication error. Which two should you look for to ensure permissions are set up correctly?

- A. The networking configuration allows access to Oracle Cloud Infrastructure services through a Service Gateway
- B. The policy for your user group grants manage permissions for the model catalog in this compartment
- C. The model artifact is saved to the block volume of the notebook session
- D. The policy for a dynamic group grants manage permissions for the model catalog in this compartment
- E. A dynamic group has rules that match the notebook sessions in its compartment

Answer: D,E

Explanation:
Detailed Answer in Step-by-Step Solution:
* Objective: Troubleshoot a 404 auth error when saving a model with resource principal.
* Understand Resource Principal: Allows notebook sessions to act as principals via dynamic groups and policies-no user credentials.
* Analyze 404 Error: Indicates permission failure-likely IAM misconfiguration.
* Evaluate Options:
* A: Block volume storage-Irrelevant to auth; it's about saving locally-incorrect.
* B: Dynamic group matching-Ensures notebook is recognized-correct.

* C: User group policy-Not used with resource principal-incorrect.
* D: Dynamic group policy-Grants catalog access-correct.
* E: Service Gateway-Network-related, not auth-specific-incorrect.
* Reasoning: Resource principal needs B (group inclusion) and D (policy perms)-404 points to these.
* Conclusion: B and D are correct.
OCI documentation states: "For ADS SDK to save to the Model Catalog using resource principal, ensure (1) a dynamic group includes notebook sessions with matching rules (e.g., resource.type ='datasciencenotebooksession') (B), and (2) a policy grants manage data-science-models to that dynamic group (D)." A is storage, C is user-based, E is network-only B and D fix the auth issue per OCI's IAM setup.
Oracle Cloud Infrastructure Data Science Documentation, "Resource Principal with Model Catalog".

NEW QUESTION # 51
You are running a pipeline in the OCI Data Science service and want to override some of the pipeline's default settings. Which of the following statements about overriding pipeline defaults is true?

- A. Pipeline defaults can be overridden only during pipeline creation.
- B. Pipeline defaults can be overridden before starting the pipeline execution.
- C. Pipeline defaults can be overridden only by the Administrator.
- D. Pipeline defaults cannot be overridden once the pipeline has been created.

Answer: B

Explanation:
Detailed Answer in Step-by-Step Solution:
* Understand OCI Data Science Pipelines: Pipelines automate ML workflows with configurable steps.
* Check Override Mechanism: Defaults (e.g., compute shape, storage) can be modified before execution via the OCI Console, SDK, or CLI.
* Evaluate Options:
* A: False-Overrides can occur post-creation, before running.
* B: False-Any authorized user, not just admins, can override defaults.
* C: True-Settings can be adjusted before execution starts.
* D: False-Defaults can be changed post-creation, pre-execution.
* Conclusion: C is correct as it reflects the flexibility of pipeline configuration.
OCI Data Science Pipelines allow users to override default settings (e.g., compute resources, environment variables) before execution, as noted in the official documentation. This can be done via the UI or programmatically, offering flexibility beyond creation time (A) and without admin-only restrictions (B).
(Reference: Oracle Cloud Infrastructure Data Science Pipelines Documentation, "Configuring Pipelines").

NEW QUESTION # 52
You are a data scientist working for a utilities company. You have developed an algorithm that detects anomalies from a utility reader in the grid. The size of the model artifact is about 2 GB, and you are trying to store it in the model catalog. Which THREE interfaces could you use to save the model artifact into the model catalog?

- A. OCI Python SDK
- B. Console
- C. Git CLI
- D. Oracle Cloud Infrastructure (OCI) Command Line Interface (CLI)
- E. Accelerated Data Science (ADS) Software Development Kit (SDK)
- F. ODSC CLI

Answer: A,B,E

Explanation:
Detailed Answer in Step-by-Step Solution:
* Objective: Identify interfaces to save a 2 GB model to the Model Catalog.
* Evaluate Options:
* A: OCI CLI-Supports Data Science tasks-possible but not primary.
* B: ADS SDK-Designed for model catalog ops-correct.
* C: ODSC CLI-Not standard; likely typo for OCI CLI.

* D: Console-GUI for catalog uploads-correct.
* E: OCI Python SDK-Programmatic catalog access-correct.
* F: Git CLI-Version control, not catalog-related.
* Reasoning: B, D, E are OCI's primary interfaces; A is valid but less emphasized.
* Conclusion: B, D, E are correct (A plausible but not top-tier).
OCI documentation lists "ADS SDK (B), OCI Console (D), and OCI Python SDK (E) as primary methods to save models to the Model Catalog." OCI CLI (A) works but isn't highlighted, C isn't real, and F is unrelated- B, D, E are the standard trio.
Oracle Cloud Infrastructure Data Science Documentation, "Model Catalog Interfaces".

NEW QUESTION # 53
You are a data scientist trying to load data into your notebook session. You understand that Accelerated Data Science (ADS) SDK supports loading various data formats. Which of the following THREE are ADS- supported data formats?

- A. DOCX
- B. JSON
- C. XML
- D. Pandas DataFrame
- E. Raw Images

Answer: B,C,D

Explanation:
Detailed Answer in Step-by-Step Solution:
* Objective: Identify three data formats supported by ADS SDK for loading data.
* Understand ADS SDK: Facilitates data loading into notebook sessions via DatasetFactory.
* Evaluate Options:
* A. DOCX: Not natively supported-requires conversion (e.g., to text).
* B. Pandas DataFrame: Supported-core format for data manipulation in ADS.
* C. JSON: Supported-common structured data format.
* D. Raw Images: Not directly supported-image data needs preprocessing (e.g., via Vision).
* E. XML: Supported-parseable structured format.
* Reasoning: ADS focuses on tabular/structured data-B, C, E align; A and D require external handling.
* Conclusion: B, C, E are correct.
OCI documentation states: "ADS SDK's DatasetFactory supports loading data from formats like Pandas DataFrames (B), JSON (C), and XML (E), enabling easy integration into notebook sessions." DOCX (A) isn't natively handled, and raw images (D) require preprocessing outside ADS-B, C, E match the supported list.
Oracle Cloud Infrastructure ADS SDK Documentation, "Supported Data Formats".

NEW QUESTION # 54
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 install any open-source package available on a publicly accessible Python Package Index (PyPI) repository
- B. You cannot install a library that's not preinstalled in the provided image
- C. You can only install libraries using yum and pip as a normal user
- D. OCI Data Science allows root privileges in notebook sessions
- E. You can install private or custom libraries from your own internal repositories

Answer: A,B,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-Youcaninstall 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 # 55
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