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Oracle 1z0-1110-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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 (Q79-Q84):

NEW QUESTION # 79

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

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

Answer: D

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 # 80

You have created a conda environment in your notebook session. This is the first time you are working with published conda environments. You have also created an Object Storage bucket with permission to manage the bucket. Which TWO commands are required to publish the conda environment?

- A. `odsc conda publish --slug <SLUG>`
- B. `odsc conda init --bucket_namespace <NAMESPACE> --bucket_name <BUCKET>`
- C. `odsc conda list --override`
- D. `conda activate /home/datascience/conda/<SLUG>`
- E. `odsc conda create --file manifest.yaml`

Answer: A,B

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Publish a conda env to Object Storage.

* Process: Initialize bucket config, then publish env.

* Evaluate Options:

* A: Publishes env with slug-correct final step.

* B: Lists envs-unrelated to publishing.

* C: Sets bucket details-required setup-correct.

* D: Creates env-not publishing.

* E: Activates env-not for sharing.

* Reasoning: C sets up, A executes-standard workflow.

* Conclusion: A and C are correct.

OCI documentation states: "To publish a conda environment, first run `odsc conda init` (C) with bucket namespace and name, then `odsc conda publish` (A) with a slug to upload to Object Storage." B, D, and E serve other purposes-only A and C are required per OCI's process.

Oracle Cloud Infrastructure Data Science CLI Reference, "Publishing Conda Environments".

NEW QUESTION # 81

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. DataLabeling
- C. `DatasetFactory`
- D. DatasetBrowser

Answer: C

Explanation:

Detailed Answer in Step-by-Step Solution:

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

* Evaluate Options:

* A: DataLabeling-Not an ADS class.

* B: DatasetBrowser-Not real.

* C: SecretKeeper-Credentials, not data.

* D: DatasetFactory-Loads datasets (e.g., `open()`)-correct.

* Reasoning: DatasetFactory simplifies library dataset access.

* Conclusion: D is correct.

OCI documentation states: "DatasetFactory (D) in ADS SDK accesses datasets from libraries like scikit-learn (e.g., `DatasetFactory.open('sklearn.datasets.load_iris')`)." A, B, and C don't exist or apply-only D fits.

Oracle Cloud Infrastructure ADS SDK Documentation, "DatasetFactory".

NEW QUESTION # 82

Which of these protects customer data at rest and in transit in a way that allows customers to meet their security and compliance requirements for cryptographic algorithms and key management?

- A. Data encryption
- B. Customer isolation
- C. Identity Federation
- D. Security controls

Answer: A

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Identify protection for data at rest/transit with customer control.

* Evaluate Options:

- * A: Controls-Broad, not specific to encryption.
- * B: Isolation-Separates tenants, not crypto-focused.
- * C: Encryption-Secures data, allows key management-correct.
- * D: Federation-Auth sharing, not data protection.

* Reasoning: C provides crypto control (e.g., Vault keys).

* Conclusion: C is correct.

OCI documentation states: "Data encryption (C) protects data at rest and in transit, with customer-managed keys in OCI Vault meeting compliance needs." A and B are broader, D is unrelated-only C fits per OCI's security model.

Oracle Cloud Infrastructure Security Documentation, "Data Encryption".

NEW QUESTION # 83

You are a data scientist building a pipeline in the Oracle Cloud Infrastructure (OCI) Data Science service for your machine learning project. You want to optimize the pipeline completion time by running some steps in parallel. Which statement is true about running pipeline steps in parallel?

- A. Steps in a pipeline can be run only sequentially
- B. All pipeline steps are always run in parallel
- C. Parallel steps cannot be run if they are completely independent of each other
- D. Pipeline steps can be run in sequence or in parallel, as long as they create a directed acyclic graph (DAG)

Answer: D

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Understand parallel execution in OCI Pipelines.

* Evaluate Options:

- * A: False-Pipelines support parallelism
- * B: True-DAG allows sequential/parallel steps-correct.
- * C: False-Not all steps must be parallel.
- * D: False-Independence enables parallelism

* Reasoning: B reflects OCI's DAG-based flexibility.

* Conclusion: B is correct.

OCI documentation states: "Pipeline steps can run sequentially or in parallel, defined by a directed acyclic graph (DAG) (B), allowing optimization of completion time." A, C, and D misrepresent this-only B aligns with OCI's pipeline design.

Oracle Cloud Infrastructure Data Science Documentation, "Pipeline Parallelism".

NEW QUESTION # 84

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