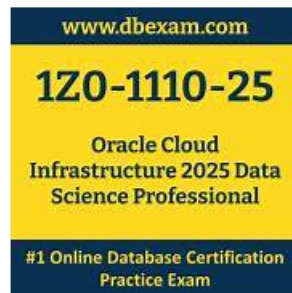


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Oracle 1z0-1110-25 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	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 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 (Q41-Q46):

NEW QUESTION # 41

Six months ago, you created and deployed a model that predicts customer churn for a call centre. Initially, it was yielding quality predictions. However, over the last two months, users are questioning the credibility of the predictions. Which TWO methods would you employ to verify the accuracy of the model?

- A. Retrain the model
- B. Operational monitoring
- C. Validate the model using recent data
- D. Redeploy the model
- E. Drift monitoring

Answer: A,E

Explanation:

Detailed Answer in Step-by-Step Solution:

- * Objective: Address declining prediction accuracy and verify model performance.
- * Analyze Problem: Degradation over time suggests data drift or model staleness-common ML issues.
- * Evaluate Options:
 - * A. Retrain the model: Uses new data to update the model-fixes accuracy-correct.
 - * B. Validate with recent data: Tests performance but doesn't fix-diagnostic only.
 - * C. Drift monitoring: Detects data distribution shifts-verifies cause-correct.
 - * D. Redeploy the model: Repeats deployment, doesn't address root cause.
 - * E. Operational monitoring: Tracks infra (e.g., latency), not prediction accuracy.
- * Reasoning: C identifies drift (why accuracy dropped), A corrects it-best pair for verification and improvement.
- * Conclusion: A and C are correct.

OCI documentation states: "Drift monitoring (C) detects changes in data distribution that impact accuracy, while retraining (A) with new data restores model performance." Validation (B) checks but doesn't fix, redeployment (D) is redundant, and operational monitoring (E) is infra-focused-only A and C align with OCI's model maintenance strategy.

NEW QUESTION # 42

You have received machine learning model training code, without clear information about the optimal shape to run the training on. How would you proceed to identify the optimal compute shape for your model training that provides a balanced cost and processing time?

- A. Start with a smaller shape and monitor the job run metrics and time required to complete the model training. If the compute shape is not fully utilized, tune the model parameters, and rerun the job. Repeat the process until the shape resources are fully utilized.
- B. Start with a random compute shape and monitor the utilization metrics and time required to finish the model training. Perform model training optimization and performance tests in advance to identify the right compute shape before running the model training as a job.
- C. Start with the strongest compute shape Jobs support and monitor the job run metrics and time required to complete the model training. Tune the model so that it utilizes as much compute resources as possible, even at an increased cost.
- **D. Start with a small shape and monitor the utilization metrics and time required to complete the model training. If the compute shape is fully utilized, change to compute that has more resources and rerun the job. Repeat the process until the processing time does not improve.**

Answer: D

Explanation:

Detailed Answer in Step-by-Step Solution:

- * Objective: Find optimal compute shape balancing cost and time.
- * Approach: Iterative testing with metrics (e.g., CPU/memory usage, runtime).
- * Evaluate Options:
 - * A: Tuning parameters when underutilized-focuses on model, not shape optimization.
 - * B: Strongest shape-Costly, ignores balance; overkill likely.
 - * C: Scale up from small shape when fully utilized-Balances cost/time effectively.
 - * D: Random start with pre-tests-Unsystematic and inefficient.
- * Reasoning: C incrementally increases resources based on utilization, optimizing both factors.
- * Conclusion: C is correct.

OCI documentation advises: "To optimize compute shape for Jobs, start with a small shape, monitor utilization (e.g., CPU, memory) and runtime via OCI Monitoring. If fully utilized, scale up until performance plateaus-balancing cost and speed." A misfocuses on model tuning, B wastes cost, and D lacks structure- only C aligns with this method.

Oracle Cloud Infrastructure Data Science Documentation, "Optimizing ComputeShapes for Jobs".

NEW QUESTION # 43

How can you collaborate with team members in OCI Data Science Workspace?

- A. By enabling chat and video conferencing within the workspace
- B. By granting access to specific notebooks and files
- C. By sharing the workspace instance with other users
- **D. By using version control systems integrated with the workspace**

Answer: D

Explanation:

Detailed Answer in Step-by-Step Solution:

- * Objective: Determine collaboration method in OCI Data Science (Notebook Sessions).
- * Evaluate Options:
 - * A: Access control-Possible but not primary collaboration.
 - * B: Version control (e.g., Git)-Standard for code sharing-correct.
 - * C: Shared instance-Not supported; sessions are single-user.
 - * D: Chat/video-Not a feature of OCI Data Science.
- * Reasoning: B leverages Git for team collaboration-OCI's recommended method.
- * Conclusion: B is correct.

OCI documentation states: "Collaborate in Data Science by integrating version control systems like Git (B) with notebook sessions to share code and notebooks." A is limited, C isn't feasible, and D isn't available- only B matches OCI's collaboration approach.

NEW QUESTION # 44

You want to build a multistep machine learning workflow by using the Oracle Cloud Infrastructure (OCI) Data Science Pipeline feature. How would you configure the conda environment to run a pipeline step?

- A. Use command-line variables
- B. Configure a compute shape
- C. Configure a block volume
- **D. Use environmental variables**

Answer: D

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Configure conda env for a pipeline step.

* Evaluate Options:

* A: Shape-Infra, not env config.

* B: Volume-Storage, not env.

* C: Command-line-Step args, not env.

* D: Env variables-Sets conda path-correct.

* Reasoning: D specifies runtime env (e.g., CONDA_ENV_SLUG).

* Conclusion: D is correct.

OCI documentation states: "Configure a pipeline step's conda environment using environment variables (D), such as CONDA_ENV_SLUG, in the step definition." A, B, and C address other aspects-only D fits env config.

Oracle Cloud Infrastructure Data Science Documentation, "Pipeline Step Configuration".

NEW QUESTION # 45

What is the correct definition of Git?

- **A. Git is a distributed version control system that allows you to track changes made to a set of files.**
- B. Git is a centralized version control system that allows you to revert to previous versions of files as needed.
- C. Git is a centralized version control system that allows data scientists and developers to track copious amounts of data.
- D. Git is a distributed version control system that protects teams from simultaneous repo contributions and merge requests.

Answer: A

Explanation:

Detailed Answer in Step-by-Step Solution:

* Define Git: Git is a version control system-centralized vs. distributed is key.

* Evaluate Options:

* A: Incorrect-Git is distributed, not centralized (e.g., SVN is centralized).

* B: Correct-Distributed, tracks file changes across local and remote repos.

* C: Incorrect-Git allows simultaneous contributions; it manages, not prevents, merges.

* D: Incorrect-Centralized is wrong, and "copious data" is vague.

* Reasoning: Git's distributed nature (each user has a full repo copy) and change-tracking are core traits.

* Conclusion: B is accurate.

OCI documentation aligns with Git's official definition: "Git is a distributed version control system that tracks changes to files, enabling collaboration and version history management." A and D misclassify it as centralized, while C misrepresents merge handling- B captures Git's essence as used in OCI Data Science.

Oracle Cloud Infrastructure Code Repository Documentation, "Git Overview".

NEW QUESTION # 46

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