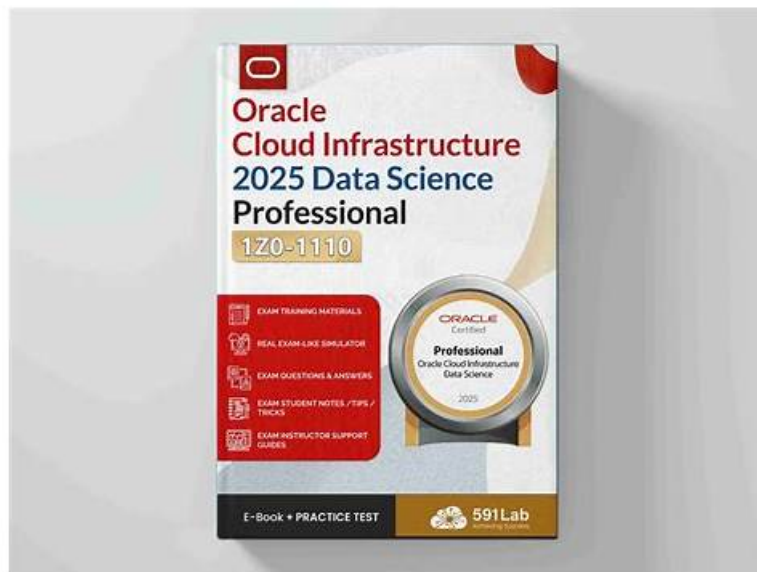


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### Oracle 1z0-1110-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>• 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.</li></ul>

Topic 2	<ul style="list-style-type: none"> <li>• <b>Implement End-to-End Machine Learning Lifecycle:</b> 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>OCI Data Science - Introduction &amp; Configuration:</b> 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Create and Manage Projects and Notebook Sessions:</b> 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Use Related OCI Services:</b> 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.</li> </ul>

## Oracle Cloud Infrastructure 2025 Data Science Professional Sample Questions (Q156-Q161):

### NEW QUESTION # 156

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

**Answer: A,D,E**

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 # 157

You have received machine learning model training code, without clear information about the optimal shape to run the training. 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 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
- C. Start with a random compute shape and monitor the utilization metrics and time required to finish the model training. Perform model training optimizations and performance tests in advance to identify the right compute shape before running the model training as a job
- **D. Start with a smaller 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: Optimize compute shape for cost and time.

\* Evaluate Options:

\* A: Tuning params-Focuses on model, not shape.

\* B: Strongest shape-Costly, unbalanced.

\* C: Scale up when utilized-Balances cost/time-correct.

\* D: Random start-Unsystematic.

\* Reasoning: C iteratively optimizes based on utilization.

\* Conclusion: C is correct.

OCI documentation advises: "Start with a small shape, monitor utilization and time (C); scale up if fully utilized until performance stabilizes-optimizes cost and speed." A misfocuses, B overspends, D lacks method-only C aligns.

Oracle Cloud Infrastructure Data Science Documentation, "Compute Shape Optimization".

### NEW QUESTION # 158

True or false? Bias is a common problem in data science applications.

- A. False
- **B. True**

**Answer: B**

Explanation:

Detailed Answer in Step-by-Step Solution:

\* Objective: Assess if bias is a common issue in data science.

\* Define Bias: Systematic errors in data/models (e.g., skewed training data).

\* Evaluate Statement:

\* Bias arises from unrepresentative data, poor feature selection, or algorithmic flaws-widely recognized in ML.

\* Examples: Gender bias in hiring models, racial bias in facial recognition.

\* Reasoning: Literature and practice (e.g., fairness in AI) confirm bias as prevalent.

\* Conclusion: A (True) is correct.

OCI documentation notes: "Bias is a common challenge in data science, stemming from imbalanced datasets or flawed assumptions, requiring techniques like re-weighting or fairness checks." This aligns with industry standards-bias is a well-documented issue, making A true.

Oracle Cloud Infrastructure Data Science Documentation, "Addressing Bias in Models".

### NEW QUESTION # 159

Arrange the following in the correct Git Repository workflow order:

- \* Install, configure, and authenticate Git.
- \* Configure SSH keys for the Git repository.
- \* Create a local and remote Git repository.
- \* Commit files to the local Git repository.
- \* Push the commit to the remote Git repository.

- A. 1, 2, 3, 4, 5
- B. 4, 2, 3, 1, 5
- C. 2, 3, 1, 4, 5
- D. 3, 5, 1, 2, 4

**Answer: A**

Explanation:

Detailed Answer in Step-by-Step Solution:

- \* Step 1: Install, configure, and authenticate Git: Git must be installed and configured (e.g., `git config -- global user.name`) before any repository actions.
- \* Step 2: Configure SSH keys: SSH keys are set up (e.g., `ssh-keygen`) and added to the remote service (e.g., GitHub, OCI Code Repository) for secure access.
- \* Step 3: Create local and remote Git repository: Initialize a local repo (`git init`) and create/link a remote repo (e.g., `git remote add origin`).
- \* Step 4: Commit files: Add files (`git add .`) and commit them locally (`git commit -m "message"`).
- \* Step 5: Push to remote: Push local commits to the remote repo (`git push origin main`).
- \* Evaluate Options: Only D (1, 2, 3, 4, 5) follows this logical sequence; others (e.g., A starts with SSH before Git installation) are illogical.

The standard Git workflow in OCI Data Science or general practice begins with installing Git (1), configuring SSH for secure access (2), creating repositories (3), committing locally (4), and pushing remotely (5). The OCI Code Repository documentation aligns with this: "First, install Git and configure authentication (e.g., SSH), then set up repositories and manage code." D is the only option reflecting this industry-standard process.

Oracle Cloud Infrastructure Code Repository Documentation, "Git Workflow Basics".

#### NEW QUESTION # 160

You are a data scientist with a set of text and image files that need annotation, and you want to use Oracle Cloud Infrastructure (OCI) Data Labeling. Which of the following THREE annotation classes are supported by the tool?

- A. Classification (single/multi-label)
- B. Semantic segmentation
- C. Named entity extraction
- D. Polygonal segmentation
- E. Object detection
- F. Key-point and landmark

**Answer: A,B,E**

Explanation:

Detailed Answer in Step-by-Step Solution:

- \* Objective: Identify supported annotation classes in OCI Data Labeling.
- \* Understand Tool: Supports image/text annotations for ML.
- \* Evaluate Options:
- \* A: Object detection- Yes (bounding boxes).
- \* B: Named entity-Text-specific, not primary for images.
- \* C: Classification-Yes (labels for images/text).
- \* D: Key-point-Not listed in OCI docs.
- \* E: Polygonal-Not explicitly supported.
- \* F: Semantic segmentation- Yes (pixel-level).
- \* Reasoning: A, C, F match OCI's image/text focus.
- \* Conclusion: A, C, F are correct.

OCI Data Labeling supports "object detection (A), classification (C), and semantic segmentation (F) for images and text," per documentation. B is text-specific, D and E aren't highlighted-only A, C, F are core classes.

Oracle Cloud Infrastructure Data Labeling Documentation, "Annotation Types".

#### NEW QUESTION # 161

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