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

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

Topic 2	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 3	<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 4	<ul style="list-style-type: none"> <li>• OCI Data Science - Introduction &amp; 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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

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## Oracle Cloud Infrastructure 2025 Data Science Professional Sample Questions (Q101-Q106):

### NEW QUESTION # 101

You loaded data into Oracle Cloud Infrastructure (OCI) Data Science. To transform the data, you want to use the Accelerated Data Science (ADS) SDK. When you applied the `get_recommendations()` tool to the `ADSDataset` object, it showed you user-detected issues with all the recommended changes to apply to the dataset. Which option should you use to apply all the recommended transformations at once?

- A. `auto_transform()`
- B. `get_transformed_dataset()`
- C. `visualize_transforms()`
- D. `fit_transform()`

**Answer: A**

Explanation:

Detailed Answer in Step-by-Step Solution:

- \* Objective: Apply all recommended transformations from `get_recommendations()` in ADS.
- \* Understand ADS Tools: `get_recommendations()` suggests fixes (e.g., missing values).
- \* Evaluate Options:
- \* A: Returns transformed data-Not for applying-incorrect.
- \* B: Sklearn-style, not ADS-specific-incorrect.
- \* C: `auto_transform()`-Applies all recommendations-correct.
- \* D: Visualizes, doesn't apply-incorrect.
- \* Reasoning: `auto_transform()` executes the fixes suggested by `get_recommendations()`.

\* Conclusion: C is correct.

OCI documentation states: "After `get_recommendations()` identifies issues, use `auto_transform()` (C) on the `ADSDataset` to apply all recommended transformations at once." A retrieves, B is external, D visualizes- only C aligns with OCI's ADS transformation workflow.

Oracle Cloud Infrastructure ADS SDK Documentation, "Data Transformation Methods".

### NEW QUESTION # 102

When preparing your model artifact to save it to the Oracle Cloud Infrastructure (OCI) DataScience model catalog, you create a `score.py` file. What is the purpose of the `score.py` file?

- A. Configure the deployment infrastructure
- B. Define the inference server dependencies
- C. Define the compute scaling strategy
- D. Execute the inference logic code

**Answer: D**

Explanation:

Detailed Answer in Step-by-Step Solution:

\* Objective: Define the role of `score.py` in OCI model artifacts.

\* Understand Artifacts: `score.py` is key for deployment runtime.

\* Evaluate Options:

\* A: Infra config-Handled by OCI settings, not `score.py`.

\* B: Inference logic-Correct; runs `load_model()`, `predict()`.

\* C: Scaling-Set in deployment, not `score.py`.

\* D: Dependencies-In `runtime.yaml`, not `score.py`.

\* Reasoning: B aligns with `score.py`'s execution role.

\* Conclusion: B is correct.

OCI documentation states: "`score.py` (B) contains the inference logic, including functions to load the model and predict outputs, executed by the deployment endpoint." A, C, and D are managed elsewhere-only B matches OCI's design.

Oracle Cloud Infrastructure Data Science Documentation, "Model Artifact - `score.py`".

### NEW QUESTION # 103

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 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
- 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 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
- D. 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

**Answer: A**

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 # 104

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

**Answer: A**

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 # 105

What is the first step in the data science process?

- **A. Defining an analytical hypothesis that could provide business value**
- B. Working with data owners
- C. Experimenting with and tuning different analytical models
- D. Collecting data and preparing it for analysis

**Answer: A**

Explanation:

Detailed Answer in Step-by-Step Solution:

\* Objective: Identify the initial data science step.

\* Define Process: Starts with problem definition, then data and modeling.

\* Evaluate Options:

\* A: Data collection-Second step after problem definition.

\* B: Modeling-Later stage.

\* C: Hypothesis-Sets the goal, first step-correct.

\* D: Data owners-Collaboration, not the start.

\* Reasoning: Hypothesis drives the process (e.g., "Can we predict churn?").

\* Conclusion: C is correct.

OCI documentation states: "The data science process begins with defining an analytical hypothesis to address a business problem, followed by data collection and analysis." C precedes A, B, and D-aligning with OCI's structured approach.

Oracle Cloud Infrastructure Data Science Documentation, "Data Science Process".

#### NEW QUESTION # 106

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