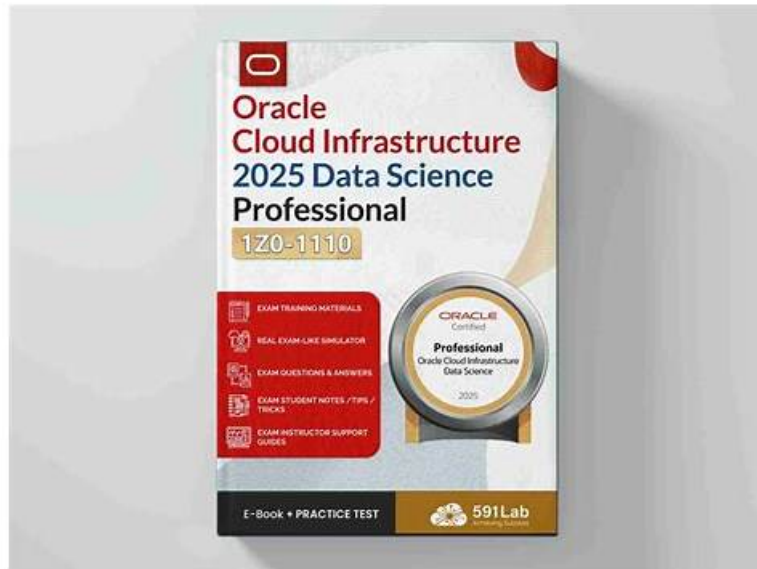


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Oracle Cloud Infrastructure 2025 Data Science Professional Sample Questions (Q150-Q155):

NEW QUESTION # 150

You're going to create an Oracle Cloud Infrastructure Anomaly Detection model for multivariate data. Where do you need to store the training data?

- A. Your local machine
- B. MySQL database
- C. Object Storage Bucket
- D. Autonomous Data Warehouse

Answer: C

Explanation:

Detailed Answer in Step-by-Step Solution:

* Understand OCI Anomaly Detection: This service trains models to detect anomalies in multivariate data (e.g., sensor readings), requiring data to be accessible within OCI's ecosystem.

* Assess Storage Requirements: The training data must be in a scalable, OCI-compatible location that the Anomaly Detection service can access programmatically.

* Evaluate Options:

* A. Your local machine: Data on a local machine isn't directly accessible to OCI services without upload, making it impractical for cloud-based training.

* B. MySQL database: While OCI supports MySQL, Anomaly Detection doesn't natively integrate with it for training data; it prefers file-based input.

* C. Autonomous Data Warehouse: This is a database for analytics, not the default storage for Anomaly Detection training data, which expects CSV/JSON files.

* D. Object Storage Bucket: OCI Object Storage is a scalable, durable storage service that Anomaly Detection uses to ingest training data (e.g., CSV files).

* Reasoning: Object Storage is the standard for large-scale data in OCI services, offering seamless integration with Anomaly Detection via APIs or SDKs.

* Conclusion: D is the correct choice as it aligns with the service's architecture.

The OCI Anomaly Detection service requires training data to be uploaded to an Object Storage Bucket in formats like CSV or JSON. This is explicitly outlined in the official documentation, which states that users must "upload the training dataset to an OCI Object Storage bucket" before creating a data asset for model training. Local storage (A) isn't viable for cloud processing, and databases like MySQL (B) or Autonomous Data Warehouse (C) aren't supported as primary inputs. Object Storage (D) provides the scalability and accessibility needed for multivariate anomaly detection workflows.

Oracle Cloud Infrastructure Anomaly Detection Documentation, "Preparing Training Data" section.

NEW QUESTION # 151

Which type of file system does File Storage use?

- A. Paravirtualized
- **B. NFSv3**
- C. iSCSI
- D. NVMe SSD

Answer: B

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Identify the file system type for OCI File Storage.

* Understand File Storage: Network-attached storage in OCI.

* Evaluate Options:

* A: NFSv3-Network File System, used by File Storage-correct.

* B: iSCSI-Block storage protocol, not File Storage.

* C: Paravirtualized-Virtualization mode, not file system.

* D: NVMe SSD-Hardware, not file system.

* Reasoning: NFSv3 is OCI File Storage's protocol.

* Conclusion: A is correct.

OCI documentation states: "File Storage uses NFSv3 (A) as its file system protocol, providing shared storage across instances." B, C, and D are unrelated-only A aligns with OCI's File Storage design.

Oracle Cloud Infrastructure File Storage Documentation, "File System Protocol".

NEW QUESTION # 152

You have an image classification model in the model catalog which is deployed as an HTTP endpoint using model deployments. Your tenancy administrator is seeing increased demands and has asked you to increase the load balancing bandwidth from the default of 10Mbps. You are provided with the following information:

* Payload size in KB = 1024

* Estimated requests per second = 120 requests/second (Monday through Friday, in every month, in every year)

* Buffer percentage = 20% What is the optimal load balancing bandwidth to redeploy your model?

- A. 452 Mbps
- B. 52 Mbps
- C. 7052 Mbps
- **D. 1152 Mbps**

Answer: D

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Calculate optimal bandwidth for model deployment.

* Given Data:

* Payload size = 1024 KB = 1024 * 8 = 8192 Kb (kilobits).

* Requests/sec = 120.

* Buffer = 20% = 0.2.

* Calculate Base Bandwidth:

* Bits/sec = Payload * Requests = 8192 Kb * 120 = 983,040 Kb/s = 983.04 Mbps.

* Add Buffer:

* Total = Base * (1 + Buffer) = 983.04 * 1.2 = 1179.648 Mbps.

* Evaluate Options: Closest to 1179.648 Mbps is 1152 Mbps (D)-realistic rounding.

* Conclusion: D is correct.

OCI documentation advises: "Calculate bandwidth as payload size (in bits) * requests/sec, then add a buffer (e.

g., 20%) for peak loads." Here, 1024 KB = 8192 Kb, * 120 = 983.04 Mbps, * 1.2 = 1179.648 Mbps. D (1152 Mbps) is the closest practical option-452 (A) and 52 (B) are too low, 7052 (C) excessive.

Oracle Cloud Infrastructure Data Science Documentation, "Model Deployment - Load Balancing".

NEW QUESTION # 153

You are a data scientist working for a manufacturing company. You have developed a forecasting model to predict the sales demand in the upcoming months. You created a model artifact that contained custom logic requiring third-party libraries. When you deployed the model, it failed to run because you did not include all the third-party dependencies in the model artifact. What file should be modified to include the missing libraries?

- **A. runtime.yaml**
- B. score.py
- C. requirements.txt
- D. model_artifact_validate.py

Answer: A

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Specify third-party libraries for model deployment.

* Understand Artifacts: runtime.yaml defines runtime; score.py handles logic.

* Evaluate Options:

* A: Not a standard file-incorrect.

* B: Inference code-not for dependencies.

* C: Defines conda env with dependencies-correct.

* D: Pip list-not used in OCI conda deployments.

* Reasoning: runtime.yaml points to a conda env with all libraries.

* Conclusion: C is correct.

OCI documentation states: "In runtime.yaml, specify the conda environment slug (e.g., ENVIRONMENT_SLUG: custom_env) containing all third-party libraries required by the model." score.py (B) is for logic, requirements.txt (D) isn't OCI-standard, and A doesn't exist-C fixes the issue.

Oracle Cloud Infrastructure Data Science Documentation, "Model Deployment - runtime.yaml".

NEW QUESTION # 154

You have trained a binary classifier for a loan application and saved this model into the model catalog. A colleague wants to examine the model, and you need to share the model with your colleague. From the model catalog, which model artifacts can be shared?

- A. Models, model metadata, hyperparameters, metrics
- B. Metadata, hyperparameters, metrics only
- C. Models and metrics only
- D. Model metadata and hyperparameters only

Answer: A

Explanation:

Detailed Answer in Step-by-Step Solution:

* Understand Model Catalog: The OCI Model Catalog stores trained models and associated details.

* Identify Shareable Artifacts: When sharing, all components-model file, metadata (e.g., name, description), hyperparameters (e.g., learning rate), and metrics (e.g., accuracy)-are accessible.

* Evaluate Options:

* A: Excludes the model itself-incorrect.

* B: Excludes metrics-incorrect.

* C: Excludes metadata and hyperparameters-incorrect.

* D: Includes all components-correct.

* Conclusion: D is comprehensive and accurate.

The OCI Model Catalog allows sharing of the model artifact (the trained model), metadata, hyperparameters, and performance metrics, enabling full examination by colleagues. This is detailed in the official documentation. (Reference: Oracle Cloud Infrastructure Data Science Documentation, "Model Catalog Overview").

NEW QUESTION # 155

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