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QUIZ

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Q1. Monitoring performance in ML systems helps track the model's accuracy, latency, and ___ in real time.

A. documentation

B. data schema

C. resource usage

D. development time

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Q2. Model drift occurs when there is a significant change in ___ between training and production data.

A. storage format

B. data distribution

C. API calls

D. model weights

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Q3. ____ drift occurs when the relationship between features and the target variable changes over time.

A. Concept

B. Feature

C. Label

D. Performance

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Q4. A robust logging system helps engineers quickly identify model issues by capturing events like errors, predictions, and ____.

A. training labels

B. execution timestamps

C. client email addresses

D. hyperparameter optimization

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Q5. Logging frameworks such as loguru, logging, or structlog should be preferred over print statements because they support ____.

A. complex math operations

B. fast JSON conversion

C. structured, configurable logging

D. automatic retraining

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Q6. In a production ML system, logs should never contain sensitive information such as passwords or ____.

A. prediction accuracy

B. IP addresses

C. model version

D. API tokens

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Q7. Token-based authentication helps secure an API by ensuring that only ____ clients can access model endpoints.

A. batch-processing

B. real-time

C. authorized

D. open-source

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Q8. To protect your model APIs from misuse or excessive load, it’s best to implement ____ as a defensive mechanism.

A. rate limiting

B. versioning

C. caching

D. serialization

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Q9. Monitoring tools like Prometheus and Grafana are used to visualize metrics such as response time and ____.

A. log compression

B. label encoding

C. CPU usage

D. YAML structure

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Q10. A secure ML system logs all access and requests while encrypting sensitive data in ____.

A. JSON

B. transit and at rest

C. plaintext

D. user dashboards