

CompTIA DY0-001

CompTIA DataAI Certification Exam

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Question: 1

Which of the following modeling tools is appropriate for solving a scheduling problem?

- A. One-armed bandit
- B. Constrained optimization
- C. Decision tree
- D. Gradient descent

Answer: B

Explanation:

Scheduling problems require finding the best allocation of resources subject to constraints (e.g., time slots, resource availability), which is precisely what constrained optimization algorithms are designed to handle.

Question: 2

Which of the following environmental changes is most likely to resolve a memory constraint error when running a complex model using distributed computing?

- A. Converting an on-premises deployment to a containerized deployment
- B. Migrating to a cloud deployment
- C. Moving model processing to an edge deployment
- D. Adding nodes to a cluster deployment

Answer: D

Explanation:

Increasing the number of nodes in your cluster directly expands the total available memory across the distributed system, alleviating memory-constraint errors without changing your code or deployment paradigm. Containerization or edge deployments don't inherently provide more memory, and migrating to the cloud alone doesn't guarantee additional nodes unless you explicitly scale out.

Question: 3

A data scientist is building an inferential model with a single predictor variable. A scatter plot of the

Independent variable against the real-number dependent variable shows a strong relationship Between them. The predictor variable is normally distributed with very few outliers. Which of the Following algorithms is the best fit for this model, given the data scientist wants the model to be Easily interpreted?

- A. A logistic regression
- B. An exponential regression
- C. A linear regression
- D. A probit regression

Answer: C

Question: 4

A data scientist wants to evaluate the performance of various nonlinear models. Which of the Following is best suited for this task?

- A. AIC
- B. Chi-squared test
- C. MCC
- D. ANOVA

Answer: A

Question: 5

Which of the following is the layer that is responsible for the depth in deep learning?

- A. Convolution
- B. Dropout
- C. Pooling
- D. Hidden

Answer: D

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