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## CompTIA DataAI Certification Exam Sample Questions (Q65-Q70):

### NEW QUESTION # 65

A data scientist is presenting the recommendations from a monthslong modeling and experiment process to the company's Chief Executive Officer. Which of the following is the best set of artifacts to include in the presentation?

- A. Recommendation charts justifications code reviews and results
- B. Methodology, code snippets, findings, data tables, and p values
- C. Methods, data overview, results, recommendations, and charts
- **D. Results, recommendations, justifications, and clear charts**

**Answer: D**

Explanation:

Executive audiences need concise, high-level insights: what you found (results), what you suggest (recommendations), why it matters (justifications), and visual summaries (clear charts). Detailed methods, code, or raw data aren't appropriate at the C-suite level.

### NEW QUESTION # 66

Given the equation:

$$X_t = \delta + \phi_1 X_{t-1} + \omega_t \text{ where } \omega_t \sim N(0, \sigma_\omega^2)$$

$X_t = \delta + \phi_1 X_{t-1} + \omega_t$ , where  $\omega_t \sim N(0, \sigma_\omega^2)$

Which of the following time series models best represents this process?

- A. ARIMA(1,1,1)
- B. SARIMA(1,1,1)  $\times$  (1,1,1)<sub>1</sub>
- **C. AR(1)**
- D. ARMA(1,1)

**Answer: C**

Explanation:

The provided equation represents an autoregressive model of order 1 (AR(1)). It describes  $X_t$  as a function of its immediately prior value ( $X_{t-1}$ ) plus white noise.

Key identifiers:

- \* No differencing (so not ARIMA).
- \* No moving average term (so not ARMA).
- \* No seasonal component (so not SARIMA).

Why the other options are incorrect:

- \* A: ARIMA(1,1,1) includes integration and MA terms, which are absent here.
- \* B: ARMA(1,1) includes both AR and MA terms, but only AR is present.
- \* C: SARIMA involves seasonal and differencing components - not applicable here.

Official References:

\* CompTIA DataX (DY0-001) Study Guide - Section 3.5: "AR(p) models describe a variable as dependent on its previous values with no differencing or moving average."

\* Time Series Analysis Textbook, Chapter 4: " $X_t = \phi X_{t-1} + \omega_t$  describes an AR(1) process when  $\omega_t$  is white noise."

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### NEW QUESTION # 67

Which of the following measures would a data scientist most likely use to calculate the similarity of two text strings?

- A. k-nearest neighbors
- **B. Edit distance**
- C. String indexing
- D. Word cloud

**Answer: B**

Explanation:

Edit distance quantifies how many single-character insertions, deletions, or substitutions are needed to transform one string into another, making it a direct measure of their similarity.

### NEW QUESTION # 68

A data scientist is preparing to brief a non-technical audience that is focused on analysis and results. During the modeling process, the data scientist produced the following artifacts:

Which of the following artifacts should the data scientist include in the briefing? (Choose two.)

- A. Mathematical descriptions of clustering algorithms included in the selected model
- B. Code documentation
- C. Data dictionary
- **D. Model selection, justification, and purpose**
- E. Model performance statistics (accuracy, precision, recall, F1 score, etc.)
- **F. Final charts and dashboards**

**Answer: D,F**

Explanation:

# Non-technical business stakeholders value outcome-oriented visuals (charts, dashboards) and the purpose /justification for the modeling work. These artifacts directly communicate impact without overwhelming technical complexity.

Why the other options are incorrect:

\* C & D: Too technical for a non-technical audience.

\* E: Useful, but may be too detailed depending on the level of abstraction desired.

\* F: Data dictionary is better suited for technical handoff - not executive review.

Official References:

\* CompTIA DataX (DY0-001) Study Guide - Section 5.5:"Business-oriented presentations should emphasize clear visualizations, insights, and executive summaries of model goals."

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### NEW QUESTION # 69

Given a logistics problem with multiple constraints (fuel, capacity, speed), which of the following is the most likely optimization technique a data scientist would apply?

- A. Non-iterative
- B. Iterative
- C. Unconstrained
- **D. Constrained**

**Answer: D**

Explanation:

# This is a classic constrained optimization problem: the boats have fuel, volume, and speed constraints. The goal is to maximize box transport within the fixed limits (e.g., fuel). Constrained optimization methods are explicitly designed to handle such problems.

Why other options are incorrect:

\* B: Unconstrained methods do not account for fuel or capacity limits - inappropriate.

\* C: Most real-world constrained problems require iterative approaches for convergence.

\* D: Iterative may be part of solving, but it's not a type of optimization - constrained is the category.

Official References:

\* CompTIA DataX (DY0-001) Study Guide - Section 3.4:"Constrained optimization is used when variables must meet certain limitations or bounds."

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### NEW QUESTION # 70

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