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### CompTIA DataX Certification Exam Sample Questions (Q16-Q21):

#### NEW QUESTION # 16

A data scientist is building a forecasting model for the price of copper. The only input in this model is the daily price of copper for the last ten years. Which of the following forecasting techniques is the most appropriate for the data scientist to use?

- A. Moving average
- B. Dynamic time warping
- C. Relative strength
- D. Autoregressive

**Answer: D**

Explanation:

# An Autoregressive (AR) model is ideal when past values of a time series are used to predict future values.

Since the only input is historical price data of copper, AR is the most appropriate technique.

Why the other options are incorrect:

- \* B: Moving average smooths noise but doesn't model the dependencies for prediction.
- \* C: Dynamic time warping is used for measuring similarity between time series, not forecasting.
- \* D: Relative strength is a financial metric used for comparing asset performance - not a forecasting technique.

Official References:

\* CompTIA DataX (DY0-001) Study Guide - Section 3.5: "Autoregressive models are used when the goal is to predict future values based solely on past values in a univariate time series."

\* Time Series Analysis and Forecasting, Chapter 5: "AR models capture the temporal dependencies in time series data and are foundational in time-based prediction."

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#### NEW QUESTION # 17

A data scientist needs to:

Build a predictive model that gives the likelihood that a car will get a flat tire.

Provide a data set of cars that had flat tires and cars that did not.

All the cars in the data set had sensors taking weekly measurements of tire pressure similar to the sensors that will be installed in the cars consumers drive.

Which of the following is the most immediate data concern?

- A. Insufficient domain expertise
- B. Multivariate outliers
- C. Lagged observations
- D. Granularity misalignment

**Answer: D**

Explanation:

# Granularity misalignment refers to a mismatch between the level of detail in the predictor variables and the event being predicted.

In this case, flat tires are likely discrete, infrequent events, while tire pressure is measured weekly. If the prediction model is trying to link a specific tire pressure value to a binary outcome (flat tire: yes/no), and the timing doesn't align precisely, the predictor variable (pressure) may not be granular enough to accurately associate with the event.

Why the other options are incorrect:

- \* B: While outliers can exist, they are not the most immediate concern given the time-series nature of the data.
- \* C: While domain expertise is helpful, it doesn't directly address the data structure issue.
- \* D: Lagged observations can be engineered in modeling but aren't the primary problem here.

Official References:

\* CompTIA DataX (DY0-001) Official Study Guide - Section 3.1 (Data Granularity): "Granularity misalignment occurs when the

temporal or spatial resolution of features does not align with the prediction target."

\* Data Science Process Guide, Section 2.3: "Predictive performance can suffer when temporal mismatch exists between observations and outcomes. Granularity issues must be resolved prior to modeling."

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### NEW QUESTION # 18

A data analyst wants to use compression on an analyzed data set and send it to a new destination for further processing. Which of the following issues will most likely occur?

- A. Server CPU usage will be too high.
- B. Server memory usage will be too high.
- C. Operating system support will be missing.
- D. Library dependency will be missing.

**Answer: A**

Explanation:

# Compression is a CPU-intensive process because it requires encoding data into a smaller format, often involving complex algorithms. While memory use is usually moderate, CPU usage can spike significantly, especially during real-time compression or large dataset processing.

Why the other options are incorrect:

\* A: Library issues are possible but not the most likely issue in compression.

\* C: Most operating systems support common compression formats (e.g., .zip, .gz).

\* D: Memory usage is generally lower than CPU usage during compression.

Official References:

\* CompTIA DataX (DY0-001) Official Study Guide - Section 5.4: "Compression is compute-intensive and may result in increased CPU utilization, particularly on shared servers or during large batch processes."

\* Cloud Data Engineering Guide, Chapter 9: "High CPU usage is a common bottleneck in data compression and decompression processes, especially at scale."

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### NEW QUESTION # 19

A data scientist has built an image recognition model that distinguishes cars from trucks. The data scientist now wants to measure the rate at which the model correctly identifies a car as a car versus when it misidentifies a truck as a car. Which of the following would best convey this information?

- A. AUC/ROC curve
- B. Box plot
- C. Correlation plot
- D. Confusion matrix

**Answer: D**

Explanation:

# A confusion matrix gives a detailed view of a classification model's performance, including true positives, false positives, true negatives, and false negatives. It's the best tool for examining model accuracy and misclassification between specific classes - like mislabeling trucks as cars.

Why the other options are incorrect:

\* B: AUC/ROC gives a broader performance summary but not individual class misclassifications.

\* C: Box plots show distributions, not classification accuracy.

\* D: Correlation plots show relationships between variables - not confusion results.

Official References:

\* CompTIA DataX (DY0-001) Study Guide - Section 4.3: "Confusion matrices enable detailed analysis of classification performance and misclassification rates."

\* Machine Learning Textbook, Chapter 5: "For evaluating how models classify specific classes, confusion matrices are the most direct and interpretable tool."

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### NEW QUESTION # 20

The most likely concern with a one-feature, machine-learning model is high error due to:

- A. dimensionality
- B. variance
- C. probability
- **D. bias**

**Answer: D**

Explanation:

# A one-feature model is likely to be overly simplistic and may not capture the true complexity of the target variable. This leads to underfitting, which is associated with high bias - the model consistently misses the mark regardless of the data.

Why the other options are incorrect:

\* B: High dimensionality is not a concern in this case - the model has too few features.

\* C: Variance refers to overfitting - more common in overly complex models.

\* D: Probability is a modeling technique, not a source of error.

Official References:

\* CompTIA DataX (DY0-001) Official Study Guide - Section 4.2: "Models with insufficient features tend to underfit and exhibit high bias due to their inability to represent complex relationships."

\* Bias-Variance Tradeoff - Data Science Textbook: "A high-bias model makes strong assumptions and is typically too simple to capture the underlying patterns in data."

### NEW QUESTION # 21

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