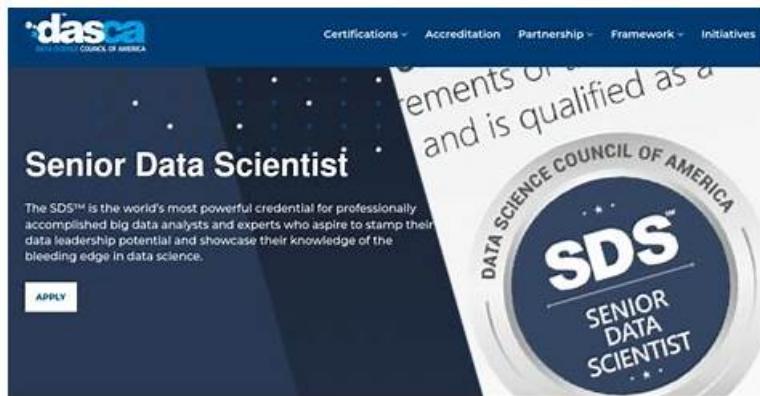


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## DASCA Senior Data Scientist Sample Questions (Q52-Q57):

### NEW QUESTION # 52

Bernoulli random variable is a type of

- A. Both A and B
- B. Continuous random variable
- C. Sometimes Discrete or sometimes Continuous random variable
- D. Discrete random variable

**Answer: D**

Explanation:

A Bernoulli random variable is the simplest form of discrete random variable.

It can take only two values:

1 with probability p (success).

0 with probability (1 - p) (failure).

Since the outcomes are finite (binary), it is a discrete random variable.

Option B (Continuous): Incorrect, as continuous variables take values from an interval (e.g., real numbers).

Option C and D: Incorrect, as Bernoulli is always discrete, never continuous.

Thus, the correct answer is Option A (Discrete random variable).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Probability & Statistics for Data Science: Random Variables and Bernoulli Distribution.

### NEW QUESTION # 53

Maximum Likelihood Estimation (MLE) is a way to frame:

- A. Large class of problems in Data Science
- B. Small class of problems in HDFS
- C. Large class of problems in HDFS
- D. Both A and C
- E. Small class of problems in Data Science

#### Answer: A

Explanation:

Maximum Likelihood Estimation (MLE) is a statistical method used to estimate the parameters of a model by maximizing the likelihood function - i.e., finding the parameters that make the observed data most probable.

Option A: Correct. MLE provides a framework for a large class of problems in data science, including regression, classification, generative models, and probabilistic inference.

Option B: Incorrect - it applies to many problems, not just a small subset.

Option C & D: Incorrect. HDFS (Hadoop Distributed File System) is a storage technology, unrelated to MLE.

Option E: Incorrect because C is invalid.

Thus, the correct answer is Option A (Large class of problems in Data Science).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Statistical Foundations: Maximum Likelihood Estimation and Inference in Data Science.

### NEW QUESTION # 54

What is DevOps?

- A. All
- B. Software Operations
- C. Quality Assurance
- D. Software Development

#### Answer: A

Explanation:

DevOps is not just about coding (development) or system administration (operations). It is a holistic cultural and technical practice that unifies:

Software Development (Option A): Writing and building applications.

Software Operations (Option B): Deploying, monitoring, and maintaining systems in production.

Quality Assurance (Option C): Ensuring the reliability, security, and performance of applications through testing and automation.

Thus, DevOps encompasses all three dimensions, making the correct answer Option D (All).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Business Applications of Data Science: DevOps & Continuous Delivery.

### NEW QUESTION # 55

Which of the following can visualize variations in the base data, which can be used to identify outliers in the data for further investigation?

- A. Box Plots
- B. Histogram
- C. Scatter Plot
- D. Trend Analysis
- E. None of the above

#### Answer: A

Explanation:

Box plots (or Whisker plots) are statistical graphics that represent data distribution through:

Minimum, First Quartile (Q1), Median, Third Quartile (Q3), and Maximum.

Outliers are plotted as individual points beyond the whiskers.

This makes them particularly powerful for:

Identifying outliers in data.

Comparing distributions across categories.

Understanding variability in data.

Option A (Trend Analysis): Shows temporal patterns, not individual outliers.

Option C (Histogram): Shows frequency distribution but does not explicitly highlight outliers.

Option D (Scatter Plot): Shows relationships between variables but doesn't focus on statistical outliers in one distribution.

Thus, the correct answer is Option B (Box Plots).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Data Visualization Tools: Box Plots for Outlier Detection.

## NEW QUESTION # 56

Which of the following is main Machine Learning Library in Python?

- A. NumPy
- B. SciPy
- C. **Scikit-learn**
- D. Matplotlib
- E. None of the above

Answer: C

Explanation:

Python supports multiple libraries for scientific computing and data analysis, but the primary machine learning library is:

Scikit-learn (Option B): Provides a wide range of machine learning algorithms for classification, regression, clustering, model evaluation, and preprocessing. It is the core ML library in Python.

NumPy (Option A): Provides numerical computing and array operations, essential for ML but not a machine learning library itself.

Matplotlib (Option C): Used for data visualization.

SciPy (Option D): Supports scientific computing and numerical methods, not focused on ML models.

Therefore, the correct answer is Option B (Scikit-learn).

Reference:

DASCA Data Scientist Knowledge Framework (DSKF) - Programming for Data Science: Python Libraries for Machine Learning.

## NEW QUESTION # 57

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