

MCQ

1. What is the primary goal of data analysis?
 - a. Making predictions
 - b. Summarizing and interpreting data
 - c. Designing databases
 - d. Data visualization

2. What is the difference between mean and median?
 - a. Mean is the middle value; median is the average.
 - b. Mean is the average; median is the middle value.
 - c. Both represent the average.
 - d. Mean and median are used interchangeably.

3. How is the range of a dataset calculated?
 - a. The difference between the largest and smallest values
 - b. The sum of all values
 - c. The product of all values
 - d. The average of all values

4. What is the primary goal of hypothesis testing in data analysis?
 - a. Describing the central tendency of data
 - b. Identifying outliers
 - c. Making predictions
 - d. Drawing inferences about populations based on sample data

Perform Case study on any 3 based on Data analysis categories.

Top 10 Real-World Data Science Case Studies

01 Predictive maintenance in manufacturing

Healthcare diagnostics and treatment personalization **02**

03 Fraud detection and prevention in finance

Urban planning and smart cities **04**

05 E-commerce personalization and recommendation systems

Agricultural yield prediction **06**

07 Energy consumption optimization

Transportation and route optimization **08**

09 Natural language processing in customer service

Environmental conservation and data analysis **10**