

# STATISTICS

## **Fundamentals of Statistics-1**

Introduction

Types Of Data

Level of Measurements

Graphical Representation of Data

Population & Sample

## **Fundamentals of Statistics-2**

Central Tendency (Measure of Centre)

Dispersion (Measure of Spread)

Scatter Plot & Box Plot

Correlation & Covariance

Linear Regression

## **Probability**

Concept of Probability

Intersection, Unions and Complements

Permutation and Combination

Independent and Dependent Events

Conditional Probability

## **Probability Distributions**

Random Variables

Discrete Probability Distributions

Continuous Probability Distributions

## **Central Limit Theorem and Confidence Intervals**

Central Limit Theorem

Sampling Error

Confidence Intervals

## **Hypothesis Testing**

### **Statistical Hypotheses**

The Steps of a Hypothesis Testing

Significance Level and P-Value

Type-I and Type-II Errors

Significance Test About Means