

STATISTICS



Statistics

Description:

Statistics is the discipline that concerns the collection, organization, analysis, interpretation and presentation of data. Statistics is the foundation behind all the work you want to do regarding Data Science. So, you must know all the statistical concepts to learn data science well. In this course, you will learn all the statistical concepts in detail that will be highly beneficial for various fields of Data Science.

Start Date:

Doubt Clear Time:

Course Time:

Features:

Challenges

Quizzes

Assignments

Downloadable Resources

Completion Certificates

What we learn:

Understand what a Normal Distribution is.

Explain the difference between continuous and discrete variables

Understand the Central Limit Theorem

Use the Z-Score and Z-Tables

Understand the difference between a normal distribution and a t-distribution

Create confidence intervals

Understand standard deviations

Understand what a sampling distribution is

Apply Hypothesis Testing for Proportions

Use the t-Score and t-Tables

Requirements:

Basic understanding of Maths

A system with internet connection

Your dedication

Instructor:

Name:

krish naik

Description:

Having 10+ years of experience in Data Science and Analytics with product architecture design and delivery. Worked in various product and service based Company. Having an

experience of 5+ years in educating people and helping them to make a career transition.

>Course introduction:

>>Introduction

>Stats Fundamental:

>>Statistics

>>Inferential Statistics

>>Descriptive Statistics

>>Mean, Median and Mode

>>Population vs Sample

>>Guassian or Normal Distribution

>>Log Normal Distribution

>>Covariance

>>Central Limit Theorem

>>Chebyshev's inequality

>>Pearson Correlation Coefficient

>>Spearman's Rank Correlation Coefficient

>>Standardization vs Normalization

>Python:

>>Use of Python in Statistics

>Representation and interaction

with Data:

>>Data as a table

>>Pandas DataFrame

**>Hypothesis testing: Comparing
two groups:**

>>Student's T-test

>>Paired test

**>Linear models, multiple
factors, and analysis of
variance:**

>>Python formulas for specifying statistical models

>>Multiple Regression

>>Analysis of variance(ANOVA)

**>Visualization: Statistical
exploration using Seaborn:**

>>Pairplot: scatter matrices

>>Implot: plotting a univariate regression

>Testing for interactions: