

Statistics Live Class

Instructors:

Bharath J P V :

Enthusiast Data Scientist with a strong background in Mathematics and Statistics. Completed My Master in Statistics. Have experience teaching Mathematics and Statistics for more than a year. I taught for more than 1000 students and helped them make their careers in their respective fields. I believe in "we rise by lifting others". Following this principle, I hope to make your life easier.

Curriculum:

Course introduction

- Introduction

Stats Fundamental

- Statistics
- Inferential Statistics
- Descriptive Statistics
- Mean, Median and Mode
- Population vs Sample
- Gaussian 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