

MSCS3805 : Statistical Analysis for Computer Science

This course covers the basics of statistical analysis and probability structures that are mandatory for the study of data science, as data science at its core is based on mathematics. Topics include exploratory data analysis, descriptive statistics, data and sampling distributions, statistical experiments and significance testing, regression and data prediction, Bayesian analysis, data classification, statistical machine learning, unsupervised learning, and probability structures. The course also applies mathematical concepts to real-world data science problems and applications relevant to STEM domains and industries.

Credits 3