

## Overview

With the explosion of data sources stretching to the social world, such as Facebook and Twitter, the world of data has changed forever. Gone are the days when we could expect the predictive quantity of structured data for our analysis. In this age of Big Data, Data Analytics has become ever more challenging and amusing. As per McKinsey, Data Science and Analytics is one of the top five IT jobs in high demand this year. The demand side quotes an average of Rs. 7 - 10L as the average salary for professionals with certification in Data Science and Analytics.

## About the Program

Data Science & Analytics (DSA) program is a technology training program facilitated by Govt. of Kerala that will be of high industry relevance. By taking this program, learners will acquire the relevant skills to grab the opportunities in the field of IT or business organizations (such as Information Technology, Banking, Financial Services, and Retail) that use such technologies.

## Course

- Introduction to Data Science
- Basics of Python Programming and Python for Data Science
- Data Visualization with Tableau
- Introduction to Statistics Classification, Tabulation, and Presentation of Data
- Measures of Central Tendency and Dispersion
- Simple Correlation and Regression
- Data Preparation and Data Preprocessing
- Clustering
- Text Mining & Analysis
- Testing of Hypothesis in Case of Large and Small Samples
- Chi-Square Test, F-Distribution, and Analysis of Variance (ANOVA)
- Probability and Data Science
- Classification
- Database Concepts and SQL
- Web Application Development with Python Flask