

# DATA SCIENCE COURSE SYLLABUS

## Overview

[Overview of Data Analytics and Data Science](#)

[Database Handling and Querying Refresher](#)

[Commonly used tools and approaches in Data Analytics](#)

## Data Analysis

[Statistics – Inferential Statistics](#)

[Analysis using Excel](#)

[Introduction to R](#)

[Advanced R Techniques](#)

[Statistics – Inferential Statistics](#)

[Data Analysis and Modeling using R](#)

## Data Visualization

[Commonly used Visualization Techniques](#)

[Advanced Visualization Techniques](#)

[Introduction to Tableau](#)

[Data Visualization techniques using Excel, R, Tableau](#)

## Data Mining / Machine Learning

[What is Machine Learning ? What is Supervised and Unsupervised Learning?](#)

[Introduction to Python and it's libraries](#)

[Overview of basic ML Principles. Linear and Logistic Regression Techniques](#)

[Clustering Techniques](#)

[k-Nearest Neighbors](#)

[Feature Scaling](#)

[CART, Decision Trees & Support Vector Machines](#)

[Random Forests, Principal Component Analysis](#)

Recommender Systems

Project 1 & 2