

Data Science Crash Course - free online session

Time: Every Saturday 3:00 PM IST to 4:30 PM IST (07 Sep 2019 - 12th Oct 2019)

Location : <https://zoom.us/j/3535653731>

Prerequisite: Passionate to learn new things

WhatsApp Group: Join whatsapp group

<https://chat.whatsapp.com/HoyhU35m61d1WOZXpVGla0> to get updates

Note: Please forward to interested people.

Instructor: Balaji Chopparapu

Objective:

This course introduces you to the field of data science and helps you to understand how it relates to AI,ML,NLP and Deep Learning etc. This course primarily focus on helping you to build machine learning models with good understanding of underlying mathematical concepts like Linear Algebra,Descriptive Statistics,Probability Distributions etc.

The entire course is thought using python as programming language using Spyder/ Jupyter IDE. Popular data science libraries like numpy,pandas,SKlearn and matplotlib will covered. Visualization is mainly dealt with Matplotlib and Tableau Tool

Course Contents:

Part-0 Introduction

Overview

Areas of Data Science

Popular Data Science Tools

Careers in Data Science

Statistics Refresher

Probability and Distributions

Assignments and Solutions

Part-1 Data Preparation

Data Preprocessing

Importing Dataset and Libraries

Missing Data

Categorical Data

Splitting Dataset into the Training Set and Test Set

Feature Scaling

Assignments and Solutions

Part-2 Modeling

Regression

[Simple Linear Regression](#)
[Multiple Linear Regression](#)
[Polynomial Regression](#)
[Support Vector Regression](#)
[Decision Tree Regression](#)
[Random Forest Regression](#)
[Evaluating Regression model performance](#)
[Assignments and Solutions](#)

[Classification](#)

[Logistic Regression](#)
[K-Nearest Neighbors](#)
[Support Vector Machine](#)
[Kernel SVM](#)
[Naive Bayes](#)
[Decision Tree Classification](#)
[Random Forest Classification](#)
[Evaluating classification model performance](#)
[Assignments and Solutions](#)

[Part -3 Model Maintenance](#)

[Introduction](#)
[How does model deterioration look like](#)
[Why do models deteriorate](#)
[Three levels of maintenance of deployed models](#)
[Assignments and Solutions](#)

[Part-4 Visualisation](#)

[Introduction to Tableau](#)
[Tableau for Data Mining](#)
[Advanced Data mining with Tableau](#)
[Assignments and Solutions](#)