



Data Visualization and Predictions with R Language



Data Visualization and Predictions with R

Introduction

In this workshop, we will guide you on how to create R Scripts in R Studio, access data from csv files, generate graphs and apply models on dataset to get prediction.

What will the students learn in this workshop?

This workshop helps you in understanding Data Interfaces, Graphs and Predictions in R Language. Following are the technologies that the students will learn in this workshop,

- R Programming

High Level Agenda Overview

The below table is a high level agenda for the ML workshop

Day #1

#	Start Time	Duration	Topic
1	10:00 AM	60 min	R Language Introduction
2	11:00 AM	30 min	Overview of R Studio
3	11:30 AM	60 min	R installation, R Studio installation
4	12:30 PM	60 min	Lunch
5	1:30 PM	30 min	Lab #1 – Sentiment Analysis on Amazon Reviews Overview on Sentiment Analysis
6	2:00 PM	30 min	Understand the dataset and import it into R
7	2:30 PM	60 min	Create a pie chart that depicts Sentiment Analysis

Day #2

#	Start Time	Duration	Topic
1	10:00 AM	30 min	Recap, Q&A and Interaction
2	10:30 AM	30 min	Lab #2- Google Play Store Data Analysis Understand the dataset and import it into R
3	11:30 AM	60 min	Plot graphs for Top Rated Apps, Installation count in each category, Top Paid Apps
4	12:30 PM	60 min	Lunch
5	1:30 PM	30 min	Lab #3 – Predict Room occupancy Understanding the dataset
6	2:00 PM	60 min	Apply a Machine Learning algorithm to predict room occupancy based on Humidity, Temperature, etc
7	2:30 PM	30 min	Recap, Q&A and Interaction