R for Machine Learning **

Six weeks hands on training on R programming for Data Analysis, Visualization and Modelling*.*

# Why should you learn R?

* Used by 2 million + Data Scientists, Econometricians, Statisticians and Data Analyst.
* R is the #1 Google Search for Advanced Analytics Software. ([Google Trends, March 2014](https://blog.revolutionanalytics.com/2014/03/r-free-popular-powerful-flexible-and-supported.html))
* Average Salary of Analyst with R programming is $77,722 per year.

Graphical user interface, application

Description automatically generated

Aim of the course Teaching R and Data Science similar to working at a **Machine Learning Company** and teaching you the **software development** workflow in machine learning.

Audience Undergraduate Students (BE, BSc, BS, BBA) Preferred for Economics, Finance and Mathematics Majors.

Prerequisites Knowledge of data analysis and modelling is preferrable but not mandatory. No previous knowledge of programming required.

# **Course Content**

Week 0: Organizing folders, Intro to Github, Create Github profile.

Week 1: R Nuts and Bolts (R objects and data types, Sub setting R objects, Managing Data frames)

Week 2: Getting and Cleaning Data (Components of tidy data, Manipulating, Grouping, and Cleaning with dplyr and tidy verse package)

Week 3: Exploratory Analysis (Exploratory Graphs, creation of Publication quality graphics with Ggplot2 package)

Week 4: Statistical Analysis (Confidence Intervals, Hypothesis Testing, Regression Analysis)

Week 5: Modelling, Forecasting (Time Series Analysis, Case Study on Stock Analysis)

# **Course Details**

**Course Duration: Six Weeks**

**Classes: Monday, Wednesday, Friday (8.00 – 9.05pm PST). There will be one mandatory course project.**

**Start Date: June 22, 2021**

**Investment: PKR 10,000**

**Registration (Only first 30 students are selected on first come first basis) :** [Click here for registration](https://forms.gle/uri6fXxyybaFAtgu5)

**Registration Deadline: June 30, 2022**

***After completion of this Course, top 10 % participants will get a chance to intern in Cube Statistica, Canada!***