**R Programming for Data science Lesson Plan**

**Lecture1:**

**Date & Time: 14/07/2019; 2-4 PM**

**Faculty: Pratap Reddy**

**Introduction to R**

R is a powerful language used widely for data analysis and statistical computing. It was developed in early 90s. Since then, endless efforts have been made to improve R’s user interface. The journey of R language from a rudimentary text editor to interactive R Studio and more recently [Jupyter Notebooks](http://discuss.analyticsvidhya.com/t/how-to-run-r-on-jupyter-ipython-notebooks/5512) has engaged many data science communities across the world.

This was possible only because of generous contributions by R users globally. Inclusion of powerful packages in R has made it more and more powerful with time. Packages such as dplyr, tidyr, readr, data.table, SparkR, ggplot2 have made data manipulation, visualization and computation much faster.

**Topics**

* Introduction to programming languages for DS
* Why R- programming
* History of R
* Install R and R studio
* R Vs R studio
* Basics of R
  + SYNTAX
  + Data types
* Simple exercises