

# 2 DAYS NATIONAL LEVEL WORKSHOP CUM CHAMPIONSHIP ON DATA ANALYSIS USING R



**Become a  
Data  
Analysis  
Champion**

**Grand final competition**

Grand Finale of all zonal center winners will be in March'18 at IIT-Roorkee

**Zonal Level Competition**

Prelims Rounds will be held just after the completion of workshop at zonal center

**Zonal Level Workshops**

2-Days workshop on Data Analysis will be organized by AppsFluxus-2018 at zonal center

## HIGHLIGHTS OF DATA ANALYSIS

- Implement a One Real Time Project
- Understand data analysis via EDA as a journey and a way to explore data
- Explore data at multiple levels using appropriate visualizations.
- Acquire statistical knowledge for summarizing data.
- Demonstrate curiosity and skepticism when performing data analysis.



## 2-Days Data Analysis Projects Details

- Rstudio For the Practice
- Rpackage For the Practice


**We will cover One Real time project** (According Any One Real Time data Available)

- Patanjali product analysis,
- Snapdeal analysis,
- Book My show customer analysis
- JIO communication sentimental Analysis
- Indian Railways Customer Analysis


## Data Analysis Using R Certification

1. Certificate of Participation from AppsFluxus-2018 EDC IIT-Roorkee.
2. Certificate of merit from AppsFluxus-2018 EDC IIT-Roorkee.
3. Certificate of Coordination from AppsFluxus-2018 EDC IIT-Roorkee.
4. College will get Center of Excellence form AppsFluxus-2018 EDC IIT-Roorkee.

## Benefits to the participants

- 
- A blue circular icon containing a white thumbs-up gesture.
- Learn & Interact with renowned Industry Experts.
  - The Certificate of Participation in association with EDC IIT-Roorkee.
  - Free CD/DVD containing Software Resource Toolkit.
  - Zonal center's winners will be called to participate in the final round will be held at IIT-Roorkee.
  - Top Teams will be awarded as winners with the certificate of honor & respected prizes at IIT-Roorkee

## Benefits of association with APPSFLUXUS-2018

- 
- A blue icon of two hands shaking.
- Name and Logo including website link will be published on our official website mentioning that “You are our Official Zonal Partner”.]
  - Authorized Team will visit your College to organize the entire event.]
  - The chance to get signs the MOU between Finland Labs New Delhi & Your estimated college.
  - An email will be sent to more than 1 lack users of our web partners about your college publicity.]
  - Posters and Flexes will be sent to you for effective regional publicity.]
  - All India publicity through Web marketing will also be done.]

## National Level Workshop cum Championship-2018

### 1<sup>st</sup> Stage (To be held at Zonal Centers)



- Competitions will be held at different Zonal centers through workshop on **Data Anaysis Using R**
- All the participants who want to participate in AppsFluxus-2018 Championship are required to attend the workshop at any zonal center.

### 2<sup>nd</sup> Stage (Prelims rounds to be held at zonal center):



- Just after the workshop a Prelims Rounds of AppsFluxus-2018 will held at zonal center.
- Winners will be awarded with Certificate of Merit and will be eligible to participate in Final Rounds which will be held on March 2018 at IIT-Roorkee.

### 3<sup>rd</sup> Stage (FINAL Round to be held at IIT-Roorkee):



- Winners of all zonal centers will be called to participate in **the biggest Final round of AppsFluxus'18 championship will held on March 2018 at IIT-Roorkee**
- Top 3 Teams will be awarded as winners of The AppsFluxus'18 championship & will be awarded & honored by **Finland Labs & EDC IIT-Roorkee.**

## 2-Days Data Analysis Using R Course Content

20% Theory & 80% Hands-On Session

### Overview

- History of R
- Advantages and disadvantages
- Downloading and installing
- How to find documentation

### Introduction

- Using the R console
- Getting help
- Learning about the environment
- Writing and executing scripts
- Saving your work

### Installing Packages

- Finding resources
- Installing resources

### Data Structures, Variables

- Variables and assignment
- Data types
- Indexing, subsetting
- Viewing data and summaries
- Naming conventions
- Objects

### Getting Data into the R Environment

- Built-in data
- Reading data from structured text files
- Reading data using ODBC

## Control Flow

- Truth testing
- Branching
- Looping
- Vectorized calculations

## Functions in Depth

- Parameters
- Return values
- Variable scope
- Exception handling

## Handling Dates in R

- Date and date-time classes in R
- Formatting dates for modeling

## Descriptive Statistics

- Continuous data
- Categorical data

## Inferential Statistics

- Bivariate correlation
- T-test and non-parametric equivalents
- Chi-squared test
- Distribution testing
- Power testing

## Group By Calculations

- Split apply combine strategy

## Base Graphics

- Base graphics system in R
- Scatterplots, histograms, barcharts, box and whiskers, dotplots
- Labels, legends, Titles, Axes
- Exporting graphics to different formats



## Zonal Competition:

- ✚ After the hand on theory and practical experience from the workshop, Zonal Round Competition will be conducted for the participants.

### Who should go for this workshop?

Research scholars / Post graduate and undergraduate students, Faculty Members, Practitioners

### What are the pre-requisites for this Course?

A background in statistics is helpful but not required

Familiarity with the following CS and Math topics will help students:

- Variable assignment
- Comparison and logical operators ( <, >, <=, >=, ==, &, | )
- If else statements
- Square roots, logarithms, and exponentials

### What are the other requirement for this training program?

- Seminar hall/classroom having the enough capacity to conduct hands-on-session for all participants.
- Good Quality public address system ideally two cordless mikes will be required.
- Projector/ Screen along with black/white board for teaching and presentation purposes.
- One small stereo jack cord to in laptop for its sound system.
- This workshop can only be arranged for a minimum of 60 Participants.
- 2-Days accommodation to our resource team.

**Workshop Duration:** 2-Days (7-8 hours each day)

**Workshop Fee:** Rs.1250/- Per Participant Only (The fee includes training, certification, and Event registration and a **Free Data Analysis tool Kit** to each Participant)

Please be free to contact us for any kind of discussions related to APPSFLUXUS-2018



**Md.Nafish**

Dept. of Education & Training Development  
Finland Labs(Unit of Revert Technology Pvt. Ltd)  
NSTP-2017 | AppsFluxus-2018 | RoboFeast-2018

Contact No.+91-7053133032 | 011-65544707

Email [nafish@finlandlabs.com](mailto:nafish@finlandlabs.com) | <http://www.finlandlabs.com>