



Five Day Hands-On National Workshop

# Machine Learning & Data Visualisation Using Python & MS Power BI

FUNDED BY RUSA 2.0(MHRD)

Free Registration | Limited Seats

Registration open to Faculty of Higher Education Institutions



**RCSS**  
RAJAGIRI COLLEGE OF  
SOCIAL SCIENCES  
(AUTONOMOUS)

Organised By: Department of Computer Science, Rajagiri College of Social Sciences (Autonomous)

Kalamasserry, Kochi -683104

**4<sup>th</sup> - 8<sup>th</sup>**  
**February 2020**

## ABOUT THE WORKSHOP

Machine learning is a booming technology in the business domain and several sectors are making use of them for large - scale enterprises. Python can be used to handle big data and perform complex mathematics. Python can be used for rapid prototyping, or for production-ready software development.

TensorFlow is an open source software library for numerical computation using data-flow graphs. It was originally developed by the Google Brain Team within Google's Machine Intelligence research organization for machine learning and deep neural networks research, but the system is general enough to be applicable in a wide variety of other domains as well. MS Power BI is a suite of Business Analytics tools to analyse data and share insights. Power BI dashboards provide a 360-degree view for business users with their most important metrics in one place, updated in real time, and available on all of their devices.

The purpose of the five days' hands-on national workshop on "Machine Learning and Data Visualisation Using Python and MS POWER BI" is to develop an expertise by providing a hands-on exposure to the innovative applications which contribute to machine learning technology.

## RESOURCE PERSONS

### Dr. Jeeva Jose

Dr. Jeeva Jose has more than 20 years of teaching and 10 years of research experience. She is a well-known trainer in Python, R and Machine Learning. She has been a resource person for more than 35 workshops and seminars in various International, National and State level institutions. She has authored 10 books and edited 3 books published by International publishers.

### Mr. Binu A

Mr. Binu A is a recognized trainer and expert for "ICT enabled Learning Management Systems" and "Institutional Repositories". He is a technical evangelist for the International Centre for Free and Open Source Software, Techno Park, Kerala for promotion of open source software in Academic and Industrial Community. Currently he is the Technical Consultant of CSI Digital Resource Centre.

### Mr. Jino Kannan

Mr. Jino Kannan has more than 12 years of experience in the IT industry with proficiency in R, Python, Machine Learning and Data Visualisation. A former lead engineer at Xerox who has an insatiable intellectual curiosity, and the ability to mine hidden business insights out of huge and complex data.

# SESSION PLAN

## Day 1

- Python Basics
- Functions
- Arguments
- Recursion
- Lambda expressions.

## Day 2

- Higher order functions
- Stacks and Queues
- Modules and import statements
- File Handling
- Familiarizing numpy and matplotlib

## Day 3

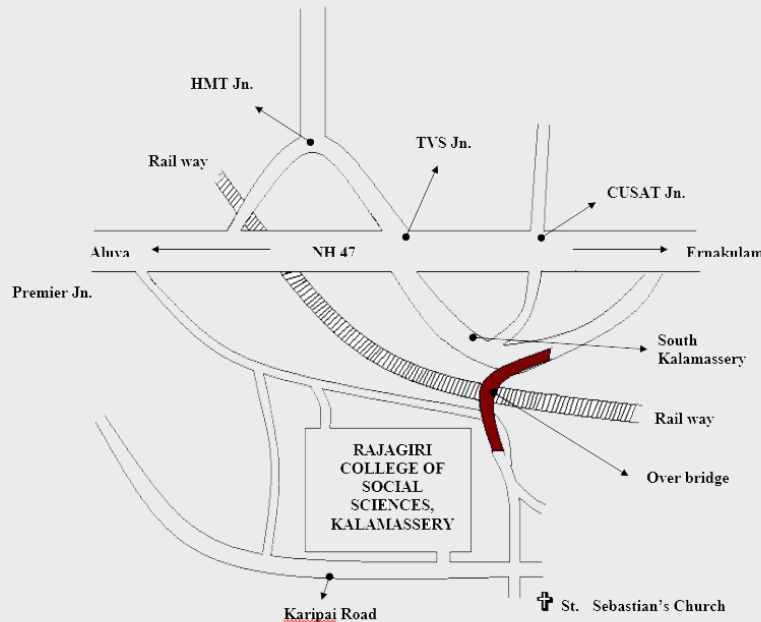
- TensorFlow - Introduction & Architecture
- TensorFlow and Jupyter Notebook on Linux
- TensorFlow Basics
- Tensorboard Basics
- Basics on Python Pandas

## Day 4

- Linear Regression
- Linear Classifier
- Kernel Methods
- Neural Network Methods

## Day 5

- Microsoft Power BI Basics
- Different types of Charts.
- Query Editor DAX and Data Model
- Hands-On(Sales/Survey/Finance/HR)
- Publishing reports in App/Cloud



Click <http://bit.ly/mcarcss> to Register

4<sup>th</sup> February - 8<sup>th</sup> February 2020

Time 9.30 A.M. - 4.30 P.M

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### For Registration Contact:

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### Please Note:

Free Registration  
Registration open to Faculty of Higher Education  
Institutions  
Seats limited to a maximum of 30 participants.  
Registration will be on a First Come First Served Basis  
No Spot Registration