Open Data Science- Machine Learning and Intelligence

Objectives

- Give a handson rich experience on the latest data science technology
- Introduce the real big data applications and methodology
- Teach computational approach for multilevel performance gain
- Connect with Data Scientists
- Share optimization techniques, tools and programming paradigm
- Form a big Data Science community

You will learn:

- Easy handling of structured/ unstructured big data
- Ecosystem for general data science project
- Applying machine learning & deep learning algorithm
- Visualization, graph and advanced 3d visualization
- Using scientific tools and libraries
- Data analytics and intelligence

Prerequisite
- Basic programming knowledge
- Other details on preparation and laptop setup will be posted soon

Target audience
Anyone who want to learn developing exciting applications for parallel processors, as well as those who want to develop programming tools and future implementations for these processors:
- Students, Faculty and Researchers from Academic Institutes
- Researchers from Govt. Research Organizations
- Engineers / Researchers from Industry

Level: Basic to Intermediate
Topics to be covered in the workshop :
- Data Scientist's journey
- Introduction to data science
- Scientific computing
- Stack and setup
- Data munging, wrangling and handling
- Case study I
- Machine learning and intelligence
- Case study II
- Mining and Analytics
- Deep learning and neural network

- Case study III
- Optimization
- Visualization and advanced graphics
- Case study IV
- Supercomputing tools and optimization

Note: The schedule and topics are standard and tentative, will be revised and updated if necessary. Software stack for handson session would be provided. Exam and assignments are part of the training and would be conducted during or after the workshop.

Note: Techfest, IIT Bombay Certificates to all participants (only if participant attends all the sessions).