

Data Science - Performance, Intelligence & Visualization

Objectives:

- Give a hands-on rich experience on the latest data science technology
- Introduce the real big data applications and methodology
- Teach computational approach for multi-level 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 set-up will be posted soon

Target audience:

Anyone who is enthusiastic about data and big buzz today.

Participate if you fit in any of the below category

- Students, Faculty, Researchers
- Researchers from any Govt. Research Organizations including PSUs, Defence, Health, Finance etc.
- Engineers / Researchers from Industry, Start-up or freelancers
- Consultant and scientists

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 hands-on session would be provided. Exam and assignments are part of the training and would be conducted during or after the workshop.