Big Data & Hadoop

Robotech Labs Private Limited

Big Data and Hadoop

Topics Covered in the workshop :

Section 1 : Introduction to Big Data

- Data Economy
- Data Analytics
- Data Science
- Traditional Data Processing Technologies

Section 2 : Apache Hadoop Architecture

- Hadoop Architecture
- Hadoop and RDBMS
- Hadoop Distributions

Section 3 : HDFS Architecture

- Hadoop 1.0 HDFS Architecture
- Hadoop Basic Concepts
- Hadoop Ecosystem – MapReduce, Hadoop Streaming , Hive, Pig, Hbase
- Where Hadoop fits in the Enterprise

Section 4 : Hadoop Setup and Installation

- Installing Hadoop
- Configuring Hadoop
- Starting Hadoop
- Running Hadoop Clients
- Browsing Hadoop UI Consoles

Section 5 : HDFS Programming Basics

- Architecture
- Examples

- Hadoop Streaming
- Performance Tuning
- Debugging Hadoop Programs

Section 6 : MapReduce Architecture

- Hadoop 1.0 MapReduce Architecture
- Hadoop 1.0 MapReduce Architectural Capabilities

Section 7 : MapReduce Programming Basics

- Introduction to MapReduce
- MapReduce Programming
- MapReduce Programming Using BigInsights

Section 8 : Accessing Hadoop Data Using Hive

- Hive Architecture.
- Downloading, Installing and Configuring Hive.
- Understand what Apache Hive is and Hive use cases.
- Make basic configuration changes in a Hive installation.
- Use DDL to create new Hive databases and tables.

Section 9 : Big Data Applications

- Big Data Applications at Scale
- Big Data in Social Networks
- Healthcare Applications

Charges:

Rs 1200 per person

Duration
2 Days (14-16 Hours)

Certification:

Certificate of Appreciation from Robotech Labs Private Limited and our associates.

Requirements:
Seminar Hall, Projector, Sound System and Internet Connection.