

TechnoMaster

Big Data

Duration: 30 Hrs (Changeable) | Fees: Individual / Batch

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Syllabus Contd..

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MODULE 1: Introduction to Big Data and Hadoop

- * Types of Digital Data
- * Introduction to Big Data
- * Big Data Analytics
- * History of Hadoop
- * Apache Hadoop
- * Analysing Data with Unix tools
- * Analysing Data with Hadoop
- * Hadoop Streaming
- * Hadoop Echo System
- * IBM Big Data Strategy
- * Introduction to Infosphere BigInsights
- * Big Sheets

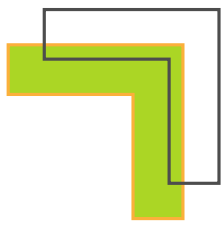
MODULE 2: HDFS (Hadoop Distributed File System)

- * The Design of HDFS
- * HDFS Concepts
- * Command Line Interface
- * Hadoop file system interfaces
- * Data flow
- * Data Ingest with Flume and Scoop and Hadoop archives
- * Hadoop I/O: Compression
- * Serialization
- * Avro and File-Based Data structures



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MODULE 3: Map Reduce

- * Anatomy of a Map Reduce Job Run
- * Failures, Job Scheduling
- * Shuffle and Sort
- * Task Execution
- * Map Reduce Types and Formats
- * Map Reduce Features

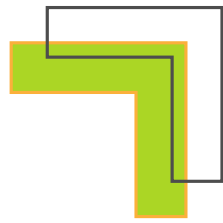
MODULE 4: Hadoop Eco System

- * Pig : Introduction to PIG
- * Execution Modes of Pig
- * Comparison of Pig with Databases
- * Grunt, Pig Latin
- * User Defined Functions
- * Data Processing operators
- * Hive : Hive Shell
- * Hive Services
- * Hive Metastore
- * Comparison with Traditional Databases
- * HiveQL
- * Tables
- * Querying Data and User Defined Functions
- * Hbase: HBasics



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- * Concepts
- * Clients
- * Hbase Versus RDBMS
- * Big SQL: Introduction

MODULE 5: Data Analytics with R

- * Machine Learning: Introduction
- * Supervised Learning
- * Unsupervised Learning
- * Collaborative Filtering
- * Big Data Analytics with BigR.