



BIG DATA & HADOOP

COURSE CURRICULUM



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Introduction about Python

We will start with evolution of Hadoop. We will be discussing it's importance over the RDMS or traditional databases. Then we will go inside the ecosystem. In the last we will cover the HDFS and map reduce working.

Topics:

- Where is Big Data?
 - Netflix challenge
 - RDMS and it's challenges
 - Ecosystem
 - HDFS (Hadoop Distributed File System)
 - Map Reduce

Hadoop Architecture and HDFS

First You will learn how to install the Hadoop on the machine in a single node. Then we will be using the hdfs file system. After that we will install the multi node to built the rack or cluster scenario. During this module we will learn various configuration

Topics:

- Single Node setup
 - Hadoop Shell Commands
 - Cluster Architecture
 - Multi node setup
 - Hadoop Administration

Hadoop MapReduce Framework

We will learn the concepts of map reduce framework. Then we will use map reduce with Hadoop on an example. The data will be stored in HDFS and yarn will be used.

Topics:

- MapReduce Approach
 - YARN components
 - YARM architecture
 - Practical Map Reduce
 - Execution flow
 - Distributed Approach
 - XML Parser

Apache Pig

We will understand the importance of PIG over the map reduce. How will they mingle to give the high importance? Then we will be using the PIG in some of the use cases. PIG gives you various modes, UDF and streaming protocol.

Topics:

- Introduction
- Importance of pig over mapreduce
- Pig Architecture
- Commands
- Pig Demo

Apache Hive

We will look on the rdms and nosql. Why the hive is becoming more popular due to openness? Querying data and scripting in Hadoop.

Topics:

- Hive vs traditional database
- Limitation of Hive
- Tables
- Data import and export
- Querying data
- Partition (hashing)
- Use case study

Apache Spark

Spark plays an important role in real time, context, graphical interface, etc. We will look on the contact and ecosystem of spark. We will learn how to use it in real time application. The major importance comes through it structure in processing so we will go in deep on it.

Topics:

- Topics:
- Introduction to Spark
- Architecture
- Intro to Scala
- Various component of Spark and it use



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Vandita kakkar

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