



# Technology Foundation presents Big Data

..... A Road Map for Advancing Your Career

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## Big Data Course Contain

### Module 1 : Introduction to Bigdata, Hadoop Hadoop Ecosystem

What is bigdata, Big Data & future of Analytics, Basic Hadoop components, Hadoop ecosystem, Basic installation tips.

### Module 2 : Hadoop Distributed File System (HDFS)Architecture

HDFS concepts, HDFS Architecture, File storage on hadoop, HDFS features, Name node and data node, Secondary Name Node, Job Tracker & Task Tracker, basic concepts on Hadoop, accessing HDFS, Hadoop daemons, Basic Linux and HDFS Commands, Hands-on exercises on HDFS

### Module 3 : Map Reduce

Introduction to map reduce, features of map reduce, map reduce flow and representation, Mapper and Reducer, Input file format, Map reduce sample word count Java code walkthrough and hands-on, submitting a map reduce job.

### Module 4 : Hive

Introduction to Hive, Hive data types, Hive megastore, Physical data layout, Managed and external tables, Loading operations, HIVEQL, Data definition, Data manipulation, Hive query execution, User defined functions, Comparison between pig and hive, UDF, UDAF, UDTF in hive. Hands-on exercises on hive.

### Module 5 : Pig

Introduction to Pig, Pig concepts and features, Pig Latin language constructs, Input and output operations, Relational operations, User defined functions, Running a pig code like foreach, filter, Group by, Different types of execution grunt shell, Script mode, Embedded mode. Sample pig code walkthrough, Hands-on exercises on pig Latin.

### Module 6 : Sqoop

Introduction to sqoop, All types import and exports from other databases, evolution function, join Using Sqoop, Import from my sql databases data in different format, Export Hadoop to mysql databases.

### Module 7 : Oozie

Introduction to oozie, how to setup oozie, how to enable web console. How to start oozie, how to run oozie jobs.

### Module 8 : Real Time case study on hadoop

Introduction to realtime big data use-cases, hands-on data collection & ingestion of data, introduction to basic big data analytics using Whatsapp data, twitter data.

### Module 9 : Projects

Hands-on exercise on each module with small projects.

### Certificate as Trainee Big Data Architect:

On successful execution of the course work you will be certified as **Trainee Hadoop Developer** by Future Technology Foundation.