**Data Science Specialization with Big Data (Hadoop & Spark)**

**[ Complete Hands-on Program ]**

**Day 1:**

* Introduction to the Big Data Terminologies
  + Industry work flow
  + Data Science
  + Big Data
  + The 6’V of Big Data
  + Benefits of using & learning Big data Tools
  + Understanding Hadoop through multi-node clusters
  + Basic & Advance Operations in HDFS
  + Doubt Session

**Day 2:**

* Understanding Map-reduce & Yarn
  + Exploring Architecture of Yarn
  + Solving problems with Map-reduce
  + Solving Word-count problems
  + Doubt Session

**Day 3:**

* Understanding Hive
  + Map-reduce VS hive
  + Partitioning & Bucketing concepts
  + Functions in Hive
  + Doubt Session

**Day 4:**

* Spark Introduction
  + Spark Basics
  + RDD
  + Working with operations on RDD
  + Spark VS Map-reduce
  + Doubt Session

**Day 5:**

* Data-Frame
  + Manipulating Data Frame
  + Renaming Columns
  + Working with Null values
  + Doubt Session

**Day 6:**

* SQL VS No-SQL
  + Working with HBASE
  + HBase Commands
  + Introduction to Kafka, Flume, Power BI