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QUALITY TRAINING TECHNOLOGY
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Big Data Essentials Program

Certificate :
Big Data Essentials Program

Duration :
2 Days of Instructor Led

Course Delivery :
Classroom (Instructor Led)

Course Overview

The amount of data in our world has been exploding, and analyzing large data sets—so-called big data has become a key basis of competition, underpinning new waves of productivity growth, innovation, and consumer surplus. What is considered "big data" varies depending on the capabilities of the organization managing the set, and on the capabilities of the applications that are traditionally used to process and analyze the data set in its domain 3Vs (volume, variety and velocity) define the properties or dimensions of big data. Volume refers to the amount of data, variety refers to the number of types of data and velocity refers to the speed of data processing. However with the right resources, technology and understanding big data can we efficiently tackled to benefit the organization. Here we demonstrate a few such techniques by which big data can be efficiently tackled.

What you will learn:

At the end of course , delegates will be able to

- Gain an understanding of how big data can help your organization achieve its business priorities.
- Build a foundation for using big data and advanced analytics to reach your organization's business goals
- Identify the unique needs and tailored recommendations based on that analysis
- Learn real-world case studies of the big data advanced analytics value proposition.
- Develop high-level roadmaps to help guide subsequent implementation
- Engage with Big data consultants to develop a proof of concept and business case.

Course Outline:

What is Big Data and Why Hadoop?

What is Big Data?

- How it is beneficial for our business?
- What Value we can get from Big Data?
- How difficult it is to process?
- What are the problems we have in Big Data?
- How Hadoop will help us to solve Big Data problems?
- What is Hadoop?
- Why Hadoop is needed?
- How Hadoop originated?
- What problems Hadoop solves?
- Big data/Hadoop use cases

Hadoop Distributed File System.

What is HDFS?

- What features HDFS provides?
- HDFS architecture?
- How HDFS reads and writes files?
- Which of Hadoop's daemons are involved with HDFS?
- What functions and responsibilities these daemons have?
- Files and blocks

MapReduce Concepts:

- What MapReduce is?
- How MapReduce works?
- Which Hadoop daemons are used in MapReduce?

Hadoop Ecosystem.

What the Hadoop Ecosystem is?

- What are some popular Hadoop Ecosystem tools
- Which problems these can help you to solve
- Pig and Hive in details
- Hands-on exercise
- Overview of Oozie, Flume, Sqoop
- Overview of Hbase
- Hbase in details

Spark

- Introduction to Spark
- RDD
- Persistence and caching
- Spark vs MapReduce

Target Audience

- Business managers/consultants who wish to increase their general understanding of big data and those who wish to achieve a detailed understanding of big data in order to implement big data techniques in their organization.

- Team members, stakeholders, and/or managers who require certification, a more detailed understanding of Big data and want to advance their project management career.