

UNIT 01 UNDERSTANDING BIG DATA

Introduction to big data - convergence of key trends - unstructured data - industry examples of big data - web analytics - big data applications- big data technologies - introduction to Hadoop - open source technologies - cloud and big data - mobile business intelligence - Crowd sourcing analytics - inter and trans firewall analytics.

UNIT II NOSQL DATA MANAGEMENT

Introduction to NoSQL - aggregate data models - key-value and document data models - relationships - graph databases - schemaless databases - materialized views - distribution models - master-slave replication - consistency - Cassandra - Cassandra data model - Cassandra examples - Cassandra clients

UNIT 03 MAP REDUCE APPLICATIONS

MapReduce workflows - unit tests with MRUnit - test data and local tests - anatomy of MapReduce job run - classic Map-reduce - YARN - failures in classic Map-reduce and YARN - job scheduling - shuffle and sort - task execution - MapReduce types - input formats - output formats.

UNIT 04 BASICS OF HADOOP

Data format - analyzing data with Hadoop - scaling out - Hadoop streaming - Hadoop pipes - design of Hadoop distributed file system (HDFS) - HDFS concepts - Java interface - data flow -

Hadoop I/O - data integrity - compression - serialization - Avro - file-based data structures - Cassandra - Hadoop integration.

UNIT 05 HADOOP RELATED TOOLS

Hbase - data model and implementations - Hbase clients - Hbase examples - praxis.

Pig - Grunt - pig data model - Pig Latin - developing and testing Pig Latin scripts.

Hive - data types and file formats - HiveQL data definition - HiveQL data manipulation -

HiveQL

queries.

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