SKY VISION COLLEGE
OF DIGITAL TECHNOLOGY AND MANAGEMENT

Contact: +232 73797979/+232 32797979

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Hadoop Programme Details

1. Java Fundamentslas

1.1 Basic java concepts
1.2 Multi-threading
1.3 File I/O –Java. IO
1.4 Collections –Java.Util.*, Java.Math, Java.Lang
1.5 Java Generics
1.6 Java Serialization
1.7 Java Database Connectivity –JDBC
1.8 Java Common Design Patterns
1.9 Java Open Source Frameworks (Spring, Apache Maven, Logging, etc...)
1.10 Java Apache Hadoop Frameworks (Hadoop Common, Map Reduce etc.)
1.11 Understand Web Servers & Application Servers - JBoss Application server, Apache Tomcat server
1.12 Java Unit testing Frameworks (Junit / TestNG)
1.13 Eclipse IDE – Java Development.
1.14 Version Control – GIT, SVN, etc.
1.15 Java Continuous Integration frameworks – Husdson, Jenkins, etc.
1.16 Handling XML and XSD using Java frameworks
1.17 Java XML Parsers frameworks – DOM and SAX
1.18 Java Web services concepts – SOA, SOAP, XML, JAXB,
1.19 SOAP Web services
1.20 REST web services

2. Hadoop Fundamentals

2.1 What is Big Data? Why Big Data?
2.2 Hadoop Architecture & Components
2.3 Hadoop Storage & File Formats
(ASCII, Avro, Parquet, RC4, JSON, EBCDIC etc.)
2.4 Hadoop Processing – Map Reduce, Spark Frameworks

3. HDFS

3.1 HDFS Basics
3.2 File Storage
3.3 Fault Tolerance

4. Map Reduce

4.1 What Is MapReduce?
4.2 Basic MapReduce Concepts
4.3 Concepts of Mappers, Reducers, Combiners and Paritioning
4.4 Inputs and Output formats to MR Program
4.5 Error Handling and creating UDFs for MR

5. Spark

5.1 What Is Spark?
5.2 Basic Spark Concepts
5.3 How Spark differs from Map Reduce?
5.4 Working with RDD's
5.5 Parallel Programming with Spark
5.6 Spark Streaming

6. Hive

6.1 What is Hive, why we need it and its importance in DWH?
6.2 How Hive is different from Traditional RDBMS
6.3 Modeling in Hive, creating Hive structures and data load process.
6.4 Concepts of Partitioning, Bucketing, Blocks, Hashing, External Tables etc.
6.5 Concepts of serialization, deserialization
6.6 Different Hive data storage formats including ORC, RC, and Parquet.
6.7 Introduction ton HiveQL and examples.
6.8 Hive as an ELT tool and difference between Pig and Hive
6.9 Performance tuning opportunities in Hive, learnings and Best Practices.
6.10 Writing and mastering Hive UDFs
6.11 Error Handling and scope of creating Hive UDFs.

7. Pig and Latin

7.1 Basics of Pig and Why Pig?
7.2 Grunt
7.3 Pig's Data Model
7.4 Writing Evaluation
7.5 Filter
7.6 Load & Store Functions
7.7 Benefits of Pig over SQL language
7.8 Input and Output formats to MR program.
7.9 Error Handling and scope of creating UDFs for Pig.

8. Hbase

8.1 HBase – Introduction
8.2 When to use Hbase
8.3 HBase Data Model
8.4 HBase Families & Components
8.5 Data Storage and Distribution
8.6 HBase Master

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Address: 5 Main Motor Road, Wilberforce,
Freetown, Sierra Leone.
info@skyvisioncollege.com | www.skyvisioncollege.com
Phone : +232 73 797979 | 32 797979