SLOG SOLUTIONS PRIVATE LIMITED TECHNOLOGY: BIG DATA DURATION: MODULE 1 (4 WEEKS) MODULE 1+2 (6 WEEKS)

MODULE 1:

BIG DATA Essentials

Introduction

- Introduction to Big Data
- Role of data analyst
- What is data science
- Why data science
- Role of data scientist

Use of Big Data

- Finance
- Health
- Retail
- Advertising
- Defense and Intelligence

Process of Data Analytics

- Preparation of data
- Preprocessing of data
- Analysis of data
- Post processing of data

Data presentation

- Planning
- Data collection
- Data selection

Data preparation

- Sqoop
- Flume
- Tools for data preparation
 - Sal database
 - mongo DB

Data preprocessing

- Data cleaning
- Data filtering
- Data completion
- Data correction
- Data Transformation
- Pig for data pre processing
- Hive

Data Analysis

- Sqoop
- Recommendation
- Classification
- Clustering
- Mahout

Recommendation

- Introduction to recommendation
- Making recommendation
- Techniques for making recommendation

Classification

- Overview of classification system
- Classification process
- Naïve bayes classifier
- Decision tree
- Clustering

- Clustering basics
- K-means clustering

Data visualization using R

- Basics of R
- Data frames
- Vectorized operations on data frames
- Selection
- Projection
- Transformation

MODULE 2: HADOOP

Introduction

- Introduction to HADOOP
- Components of HADOOP ecosystem
- Commercial HADOOP distributions
- HADOOP architecture distributed storage (HDFS) and YARN

HDFS

- What is HDFS
- Need of HDFS
- HDFS architecture and component
- Regular file system vs. HDFS
- Data block split
- Data replication topology
- HDFS command line

YARN

- What is YARN
- YARN use case
- YARN architecture
- Resource manager
- Application master
- How YARN run application
- Tools for YARN developers

Data ingestion into Big Data System and ETL

- Overview of data ingestion
- Apache sqoop
- Sqoop and its uses
- Sqoop preprocessing
- Sqoop connectors
- Apache flume
- Flume model
- Scalability in flume
- Components in flume architecture



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