adHOC NETWORKS

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WINTER INDUSTRIAL TRAINING/INTERNSHIP 2019

BASH 100-19 Big Data & Analytics with Tableau
Duration: 30 Days

Cloud - Amazon Web Services (AWS) & Microsoft Azure

1. Understanding of Cloud Computing & Services
2. Understanding difference between STaaS, SaaS, IaaS, PaaS, NaaS

AWS

- AWS Overview
- EC2 - Elastic Compute Cloud Use on AWS and deployment of own service
- EBS - Elastic Block Storage, S3 - Simple storage service
- VPC - Virtual Private Cloud
- Elastic Load Balance
- Amazon Machine Image
- Application and Infrastructure Monitoring
- Security on AWS
- RDS - Relational Database Service
- Notification service
- Backup and Recovery Approaches Using AWS
- AWS Lamda
- Elastic Beanstalk

Microsoft Azure

- Azure Overview
- Virtual Machines
- Managing infrastructure in Azure
  - Azure Virtual Machine
  - Azure Load Balancing
- Windows Azure
  - Azure Storage
  - Azure App Fabric

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- SQL Azure
  - o Azure SQL Management
  - o Azure SQL Migration
- Website
  - o Azure Website Creation
  - o Azure Website Maintenance
- Processing Event Streams using Azure Stream Analytics

Big Data

- Understanding Apache Hadoop & Getting data into Hadoop File System - HDFS
- Mapreduce | Yarn
- Elastic Mapreduce - AWS Cloud feature
- Databricks
- Apache Spark - Core | Spark Live Streaming
- Azure dataframes and datalakes
- Gain insights from your data with Microsoft Power BI Tool - Business Intelligence Tool
- Managing Bog Data in Azure Data Lake Store
- Processing Big Data using Azure Data Lake Analytics
- Implementing custom operations and monitoring performance in Azure Data Lake Analytics

Data Visualization

- Tableau

R: One of the Most Used & Powerful Programing Language

Introduction:
- Introduction to Data Analytics and the Role
- Why R programming
- Use case with Real Industry
- Installation of R and R studio
- Installation on Windows and Linux

Variable magic:
- Introduction about Variable
- Use and Syntax Check

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- Assignment of Variables
- Environment
- Operators & Maths
- Special Numbers and Logical Operators
- Vectorized Operations
- Types of Vectorized Operations

Data structure:
- Data Structure
- Atomic Vectors
- Factors
- List Description
- Command Data Frame
- Matrix
- Array and its Operation

Function and Control Statements:
- Function Control
- Lazy Evolution
- If, for, while, break

Package and Graphs:
- About Packages
- Installing Packages
- Using and Loading Packages

Data Manipulation:
- Working Directory
- Importing CSV
- Importing Tables
- Data from URL
- XML Files