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Smart Big Data

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Smart Big Data

Dealing with unstructured and structured data, Data Science is a field that comprises of everything that related to data cleansing, preparation, and analysis.

Data Science is the combination of statistics, mathematics, programming, problem-solving, capturing data in ingenious ways, the ability to look at things differently, and the activity of cleansing, preparing and aligning the data.

In simple terms, it is the umbrella of techniques used when trying to extract insights and information from data.

Big Data humongous volumes of data that cannot be processed effectively with the traditional applications that exist. The processing of Big Data begins with the raw data that isn't aggregated and is most often impossible to store in the memory of a single computer

Course Outline:

Chapter (1) Introduction

- What is Big Data?
- Types of Big Data
- Big Data Overview
- Big Data Dimensions
- Facts of Big Data

Chapter (2) Data Science

- Data Science vs. Data Analytics
- What is Data Science?
- What is data analytics?
- Differences between DS and DA
- Case Study

Chapter (3) Extracting Big Data

- Data Extraction and Big Data
- Benefits of Big Data
- Acceleration Plan
- Big Data Usability
- Big Data Pipeline
- Big Data Management

Chapter (4) Data Visualization

- Types of Visualizations
- Big Data Sources
- Big Data Architecture
- Big Data Solutions' Structure

Chapter (5) Hadoop DFS

- Hadoop Distributed File System
- About Hadoop
- Hadoop Components
- Hadoop Tools
- SQL vs. Hadoop
- Use Study Cases
- Big Data Warehouses
- Big Data Uses
- Big Data Best Practices

Chapter (6) Big Data Applications

Summary

Appendix (1) HADOOP