

DAY 1 16-APR-2024

DATA ANALYTICS

Data analysis- Collecting data and processing

Data analyst- understands the data

Data scientist- works on the data

TYPES OF DATA ANALYSTS

- 1) Prescriptive Analytics-Suggest a course of action
- 2) Predictive Analytics-Root cause of Anomaly
- 3) Diagnostic Analytics-What is likely to happen?
- 4) Descriptive Analytics-What happened?

DATA MINING

Involves extraction of data from large quantities of data and extracting patterns

BUSINESS INTELLIGENCE

Acquisition and transformation of large amount of unstructured data

STATISTICAL ANALYSIS

Study of Collection, Analysis, Interpretation, Presentation and organization of data

Descriptive statistics

Data is summarized into numerical descriptors

- ✓ Mean, Standard deviation for continuous data
- ✓ Frequency, Percentage for categorical data

PREDICTIVE ANALYTICS

Analyze current and historical data to predict about future

ROADMAP TO BECOME A DATA ANALYST

- Starting point
- Statistics Excel
- SQL
- Python
- Data visualization

- BI tools
- Being Awesome

DATA ANALYTICS PIPELINE

- ✓ Connect
- ✓ Process
- ✓ Store
- ✓ Analyze
- ✓ Deliver

BENEFITS OF DATA ANALYTICS IN MANUFACTURING

Enhance production and services

Cost reduction

Supply chain management

Demand Projection

MS EXCEL

Functions

Conditional Formatting