

Descriptive Analytics

Explore data transformation for actionable insights.

Learn visualization techniques using Power BI.







What is **Descriptive Analytics?**

Purpose

Answers "What has happened?" in data analysis.

Process

Distills large data volumes into clear insights.

Presentation

Uses visual representations for easier interpretation.

Impact

Reveals patterns, guiding decision-making processes.

Data Transformation



purss lofere thur data transprmint only dart to date pli yor. fook yot tansferaation

Dr.P.Krishnaveni, Prof/MBA/SNSCT- Data Driven Decision Making 05.07.2024



B - stafeorsk.co



Power BI: Your Analytics Toolkit



05.07.2024 Dr.P.Krishnaveni, Prof/MBA/SNSCT- Data Driven Decision Making





Setting Visualization Goals



Clarity

Ensure visuals convey clear message.



Engagement

Create visually appealing and informative graphics.

Insight

Highlight key patterns and trends.



Actionability

Guide decision-making with datadriven visuals.





Trend Analysis: Past to Future



1

2

3

4

Gather and analyze past performance metrics.

Pattern Recognition

Identify recurring trends and cycles.

Projection

Use historical patterns to forecast future trends.

Decision Making

Inform strategies based on projected trends.





Grouping and Clustering Data

Segmentation

Divide data into meaningful groups.

- Demographic clusters
- Behavioral segments
- Product categories

Analysis

Examine patterns within each group.

- Unique characteristics
- Group-specific trends
- Comparative insights

Application

- Targeted marketing
- Personalized services

Dr.P.Krishnaveni, Prof/MBA/SNSCT- Data Driven Decision Making 05.07.2024



Tailor strategies to each segment.

Optimized resource allocation

Case Study: Visual Summary Creation



3

4

Analysis

Apply descriptive analytics techniques to dataset.

Insight Extraction

Identify key findings and patterns.

Visualization Design

Create compelling graphic to showcase insights.





Putting It All Together

Practice 1

Apply learned techniques to real-world datasets.

Collaborate 3

Share and discuss findings with peers.

Experiment 2

Try different visualization types for various insights.

Iterate 4

Refine your approach based on feedback.

05.07.2024 Dr.P.Krishnaveni, Prof/MBA/SNSCT- Data Driven Decision Making



What question does descriptive analytics aim to answer?

- A) "What will happen?"
- **B) "Why did it happen?"**
- C) "What has happened?"
- **D)** "How can we make it happen?"





https://www.microsoft.com/en-us/power-platform/products/power-bi/desktop

https://www.dropbox.com/scl/fi/x8u5jx1a51mke1gp89xtw/Contoso.pbix?rlkey=kvu2oc 63ls4oo77t4a3nk3u2q&e=2&dl=0

Data set





- **Descriptive Analytics** \bullet
- **Power BI**

