DATA ANALYSIS METHODOLOGY

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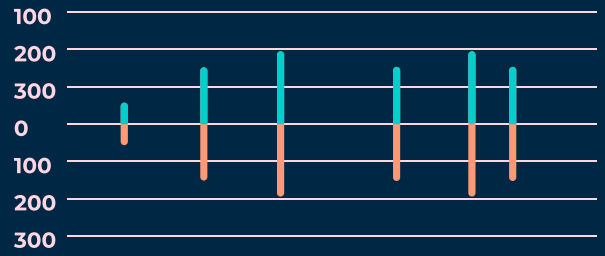
What is Data Analysis?

Data analysis is a fundamental process in research. It involves a distinct procedure of gathering and organizing data, and using various statistical techniques.



Types of Data

Before beginning data analysis, make sure you know what type of data you are dealing with. Take a few minutes to research the following data types to interpret which you are dealing with:

- Qualitative Data
- Quantitative Data
- Machine Data
- Metadata
- Big Data
- Real Time Data

The Process

The data analysis process consists of 5 stages:

1. Identify
2. Collect
3. Clean
4. Analyze
5. Interpret

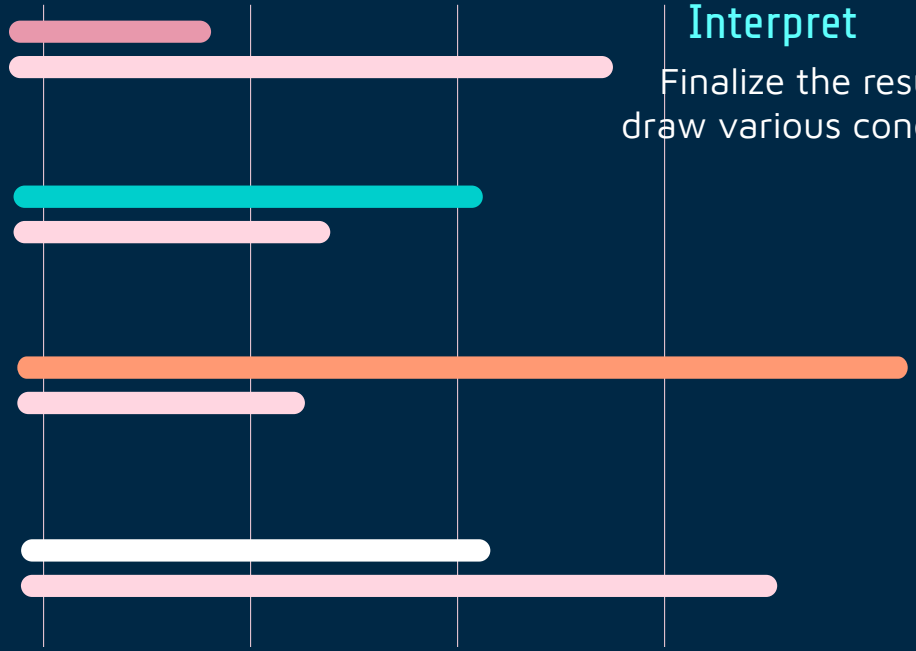
The Process

Identify
Why do you need to analyze this data?

Collect
Use your desired method of gathering data

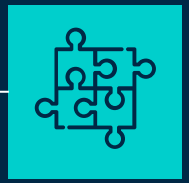
Clean
Go over data that is not needed and delete it

Analyze
Take some time to really go over the data (look for connections and variables)



Interpret
Finalize the results and draw various conclusions

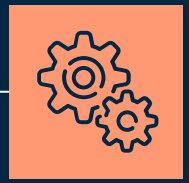
Types of Data Analysis



01

Descriptive Analysis

Describe or summarize a set of data



02

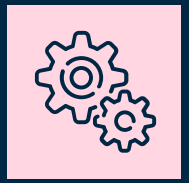
Exploratory Analysis

Finding relationships between unknown variables

03

Inferential Analysis

Using a small sample of data in order to infer information about a larger portion



04

Predictive Analysis

Using historical or current data to make predictions and find patterns for the future

05

Causal Analysis

Involves looking at the cause and effect relationships in order to find a cause of a correlation

Getting Started

You are finally ready to begin analyzing your data, good luck!

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