DATA ANALYSIS STEPS

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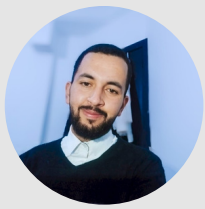
DATA :

Data refers to any kind of information that can be processed and analyzed. Data is collected and stored in databases, spreadsheets and other data management systems, and is analyzed to extract insights, make predictions, and inform business decisions.



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STEP 1 :

DEFINE THE PROBLEM OR RESEARCH QUESTION

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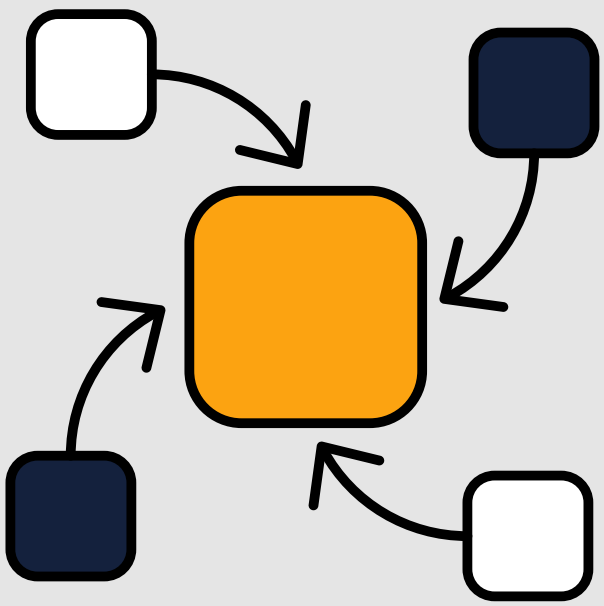
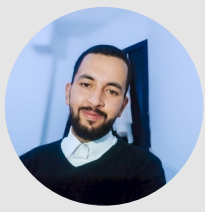
TARGET :

Define the problem or research question is crucial in the data analysis process. This step involves identifying the specific problem or question that you want to solve or answer using the data.





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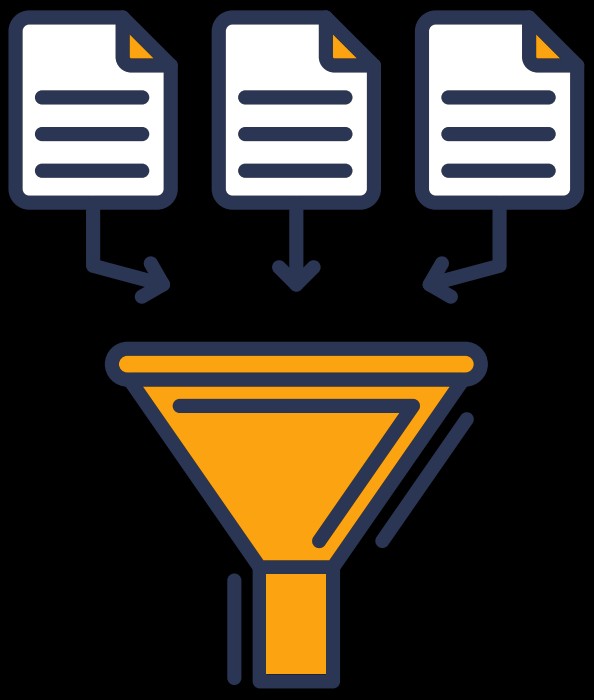

STEP 2 :

COLLECT AND IMPORT THE DATA

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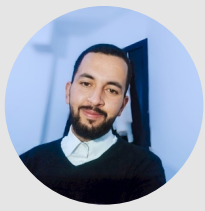
TARGET :

Gather and import the data you need for your analysis. This may include data from various sources such as databases, spreadsheets, and surveys.



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STEP 3 :

CLEAN AND PREPARE THE DATA

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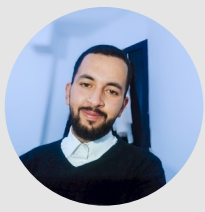
TARGET :

Clean and prepare the data for analysis. This may include tasks such as removing missing or duplicate data, handling outliers, and formatting the data.



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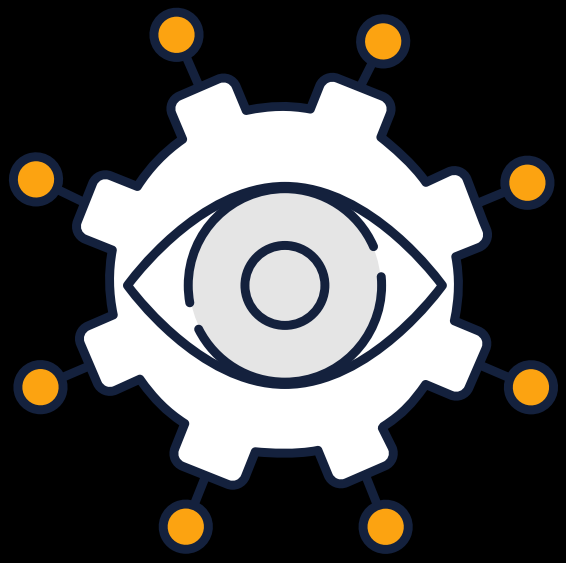

STEP 4 :

EXPLORATORY DATA ANALYSIS

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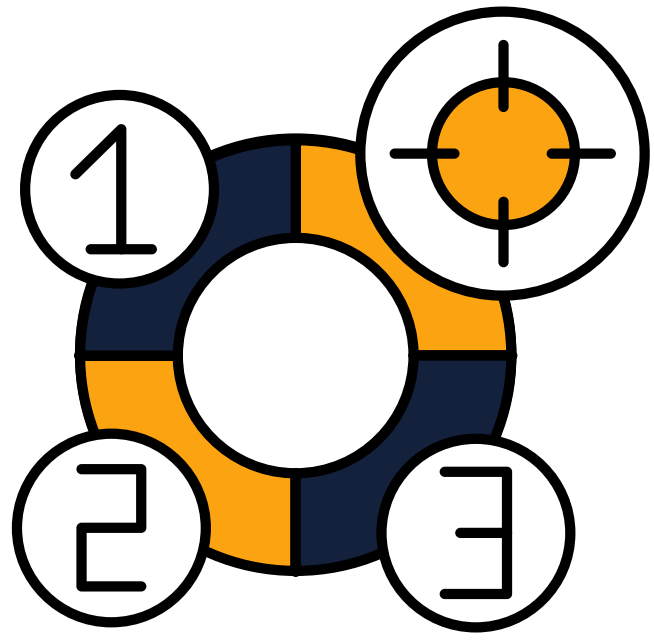
TARGET :

Perform an initial exploration of the data to identify patterns, trends, and relationships. This may include creating visualizations, calculating summary statistics, and identifying outliers.



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STEP 5:

STATISTICAL ANALYSIS

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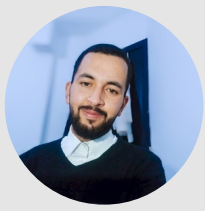
TARGET :

Perform statistical analysis to test hypotheses and uncover insights. This may include methods such as correlation analysis, regression analysis, and hypothesis testing.



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STEP 6 :

COMMUNICATE RESULTS

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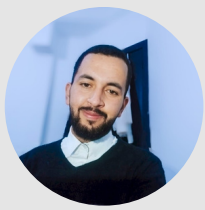
TARGET :

Communicate the results of your analysis in a clear and effective manner. This may include creating reports, visualizations, and presentations.



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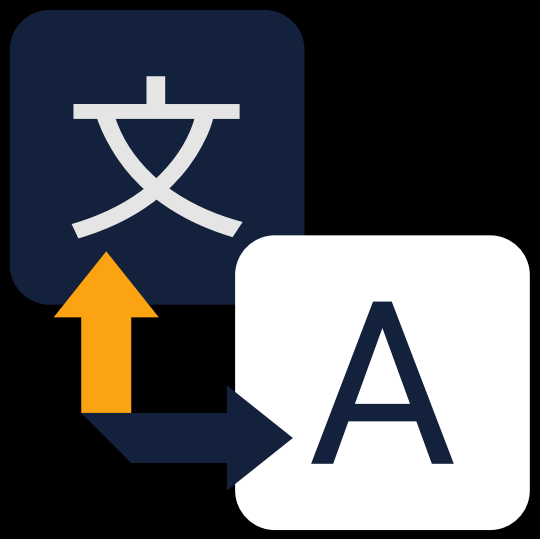

STEP 7:

INTERPRETATION AND CONCLUSION

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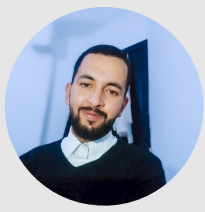
TARGET :

Interpret the results of your analysis and draw conclusions. Identify any limitations of the analysis and suggest further research.



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NOTE

It's important to note that these steps are not always followed linearly, and some steps may need to be repeated multiple times. Additionally, depending on the type of data and the problem to solve, the steps can change and be modified.

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