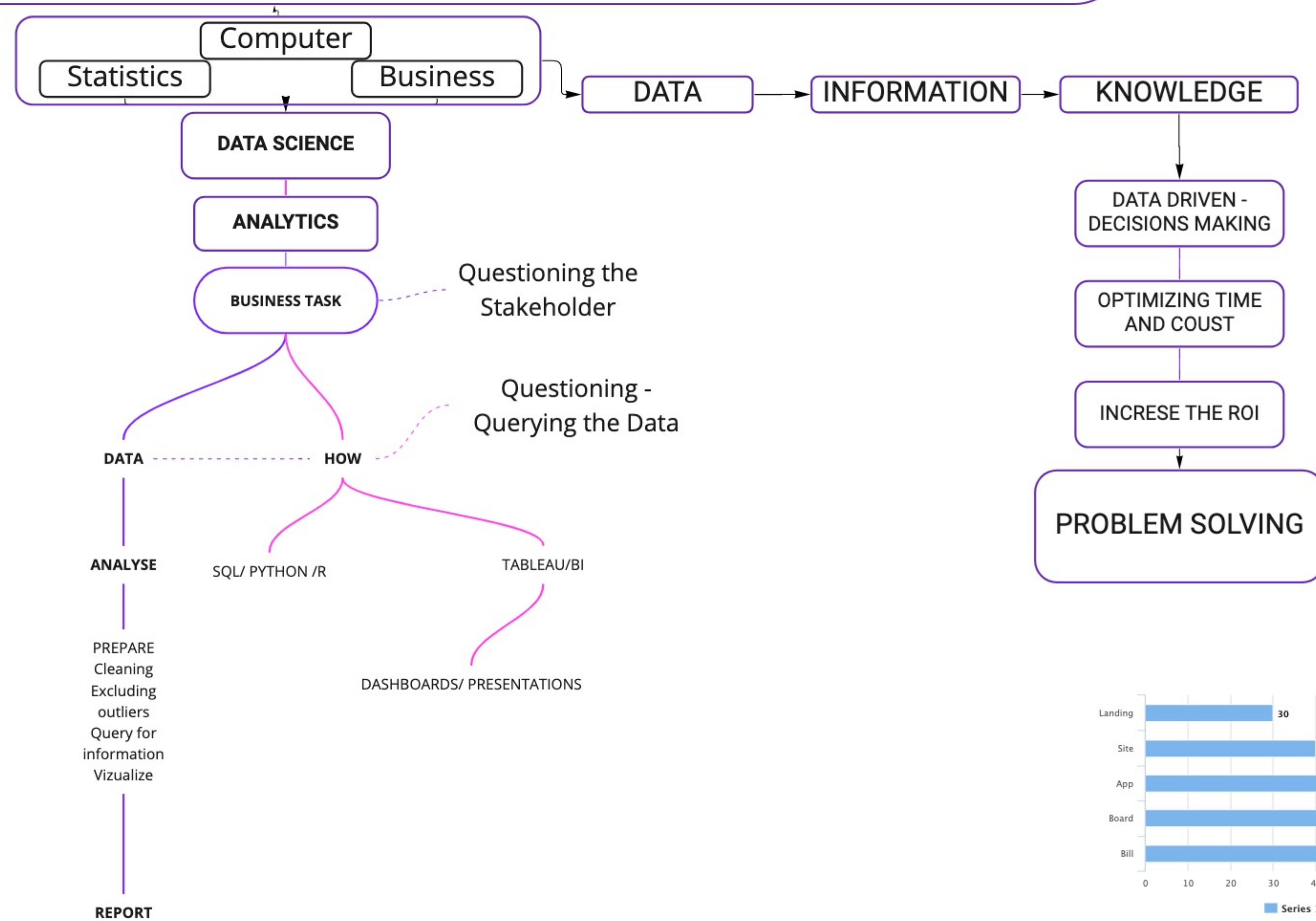


DATA ANALYSIS



Aurea Montero

DATA ANALYSIS PROJECT

WITH PYTHON

THE WEATHER DATASET



Este projeto foi desenvolvido utilizando o Weather Dataset
(Dataset sobre condições climáticas de determinados locais).

O Dataset foi disponibilizado pelo canal [Data Science Lovers](#) como um arquivo CSV (valores separados por vírgula) e analisado utilizando Python, através da Interface Jupyter Notebook e utilizando o DataFrame Pandas.

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Questões:

- Q. 1) Find all the unique 'Wind Speed' values in the data.
- Q. 2) Find the number of times when the 'Weather' is exactly 'Clear'.
- Q. 3) Find the number of times when the 'Wind Speed' was exactly 4 km/h'.
- Q. 4) Find out all the Null Values in the data.
- Q. 5) Rename the column name 'Weather' of the DataFrame to 'Weather Condition'.
- Q. 6) What is the mean 'Visibility' ?
- Q. 7) What is the Standard Deviation of 'Pressure' in this data?
- Q. 8) What is the Variance of 'Relative Humidity' in this data ?
- Q. 9) Find all instances when 'Snow' was recorded.
- Q. 10) Find all instances when 'Wind Speed' is above 24' and 'Visibility' is 25'.

Comandos:

- * head() - It shows the first N rows in the data (by default, N=5)
- * shape - It shows the total no. of rows and no. of columns of the dataframe
- * index - This attribute provides the index of the dataframe
- * columns - It shows the name of each column
- * dtypes - It shows the data-type of each column
- * unique() - In a column, it shows all the unique values. It can be applied on a single column only, not on the whole dataframe.
- * nunique() - It shows the total no. of unique values in each column. It can be applied on a single column as well as on the whole dataframe.
- * count - It shows the total no. of non-null values in each column. It can be applied on a single column as well as on the whole dataframe.
- * value_counts - In a column, it shows all the unique values with their count. It can be applied on a single column only.
- * info() - Provides basic information about the dataframe.