OPENDATA AND EXPLORATORY DATA ANALYSIS

Introduction to Data Science

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Outline

OpenData and Data Sources

Exploratory Data Analysis





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Exploratory Data Analysis





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Data is stored in databases, files, and APIs

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- Data is structured, semi-structured, and unstructured.
- Data is processed and analyzed to extract knowledge and insights.





Third-party APIs

A third-party API is an API that is provided by a third-party company or organization.



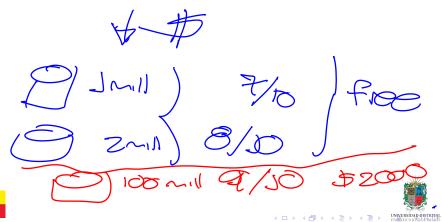


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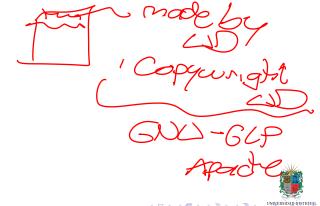
Propietary Data Sources are data sources that are sounced by a company or organization. Access to proprietary data is restricted to authorized users.





Open Data

Open data is data that is freely available to everyone to use and republish as they wish, without restrictions from copyright, patents, or other mechanisms of control.





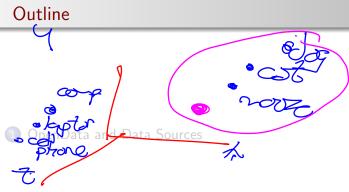
Data Streaming

Data streaming is the process of transferring data from a source to a destination in a continuous and real-time manner.

Python bot To dost motion











Data Profiling and Cleaning

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• Data profiling and data cleaning are important steps in the data

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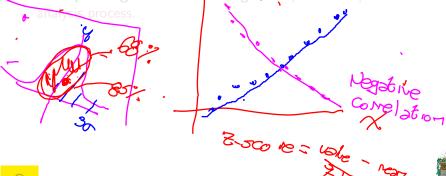




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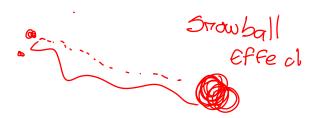






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- Exploratory data analysis is the process of analyzing data to summarize its main characteristics.
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Extract-Tranform-Load Pipelines

- An extract-transform load (ETL) pipeline is a process that extracts
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Thanks!

Questions?



Repo: https://github.com/EngAndres/ud-public/tree/main/ courses/data-science-introduction



