Data Engineering introduction

Build your first data pipeline

Le Wagon Assessment Baptiste PICARD - 28/06/2025

A short introduction

Requirements and what you can expect from this course?

Requirements and expectations

Python

basics

Your Data

Your Data understanding

Keep practicing on real usecase Data
Standards
and
good
practices

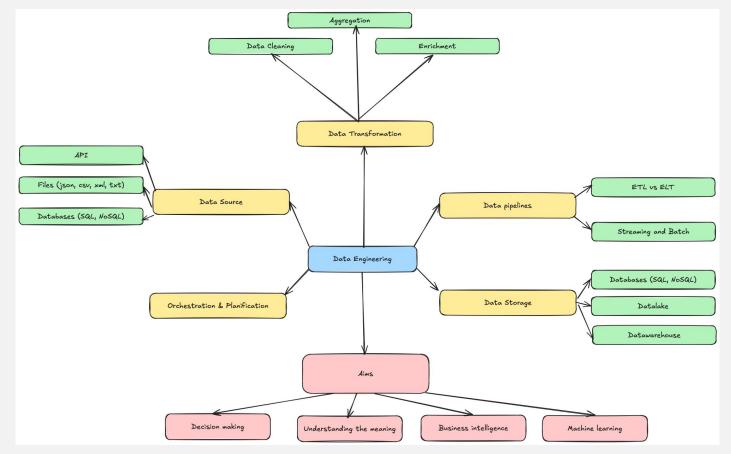
Agenda

- Why Data Engineering matters?
- 2. What is Data Engineering?
- 3. What is a Data Pipeline
- 4. Data pipeline example country population
- 5. Tools and best practices
- 6. Conclusion

Why Data Engineering matters?

Let's walkthrough a mindmap on excalidraw

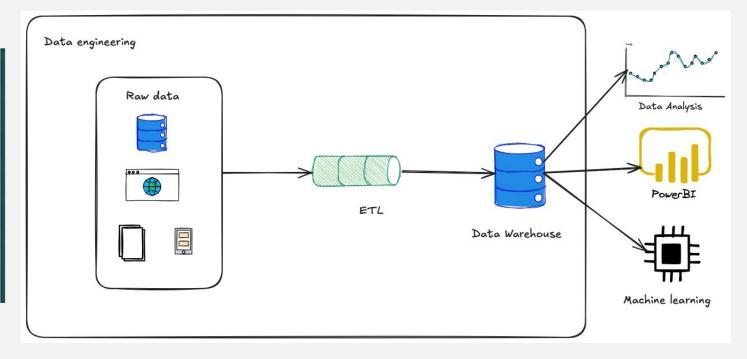
Final Mindmap



data engineering mindmap

What is Data Engineering?

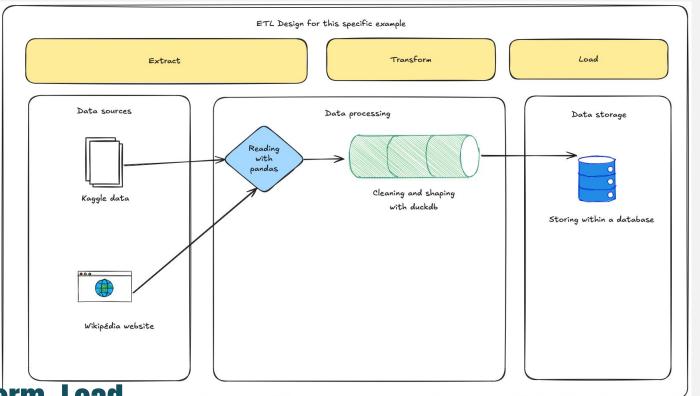
Where data engineering is spotted



data engineering vs data analytics

What is a data pipeline?

How to design an ETL?



ETL: Extract, Transform, Load

ETL design schema

Data pipeline example: Country population data

https://github.com/BaptPicxDev/DataEng-teaching-pipeline/tree/playground

Important tools and best practices







Data/Code quality





Thank you!

Do you have some questions?