



From Raw Data to AI Gold: Crafting the Perfect Data Pipeline

Whats the big deal about AI anyway?



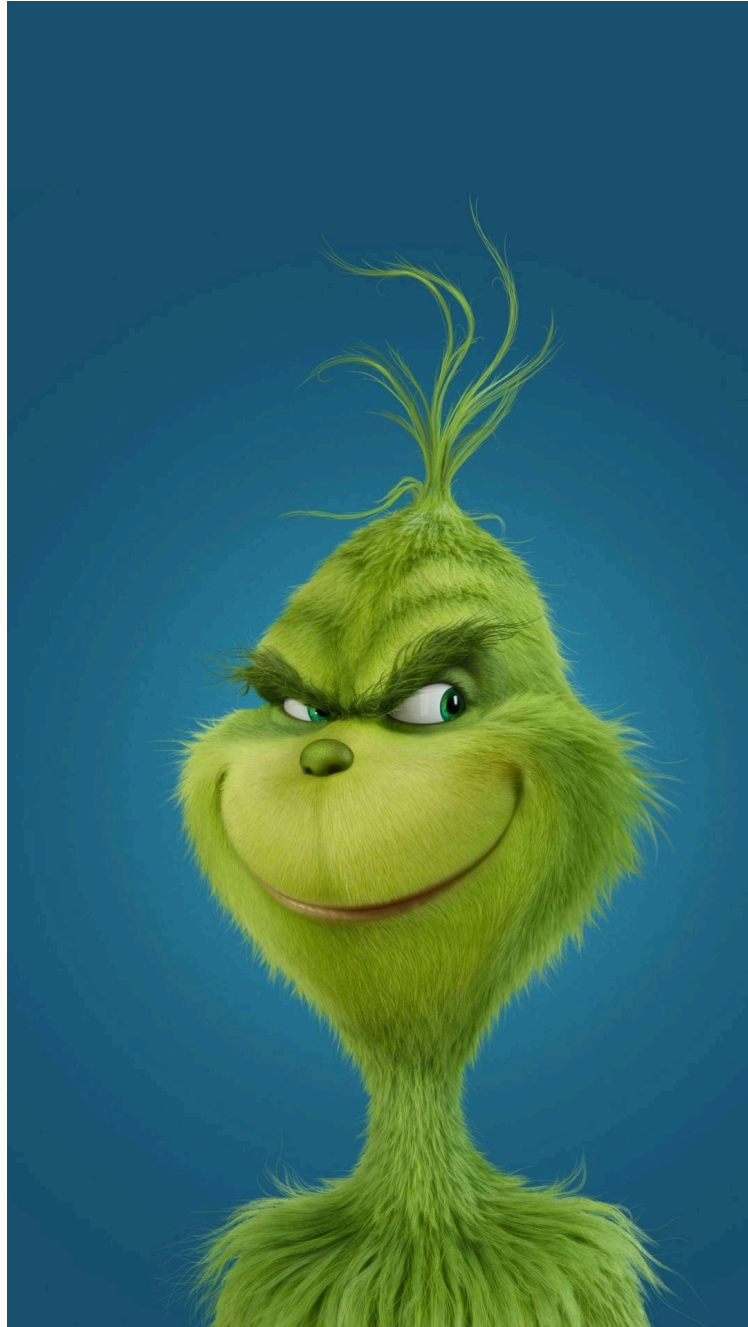
Music: அருகிலே

Volvo AI ad

**Creativity and time savings on your
behalf!**

But what if AI takes over?

Not so fast...



ChatGPT ▾

How many rs are in the word strawberry?



There are **two** "r"s in the word "strawberry."

explain your answer



To determine the number of "r"s in "strawberry," we can break down the word:

- S
- T
- R
- A
- W
- B
- E
- R
- R
- Y

As seen, the letter "r" appears twice in "strawberry," hence there are two "r"s.

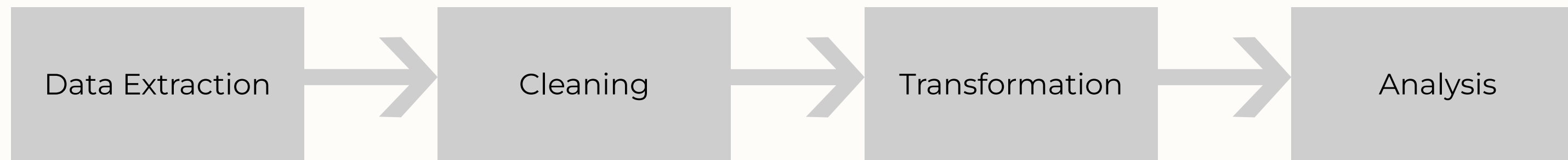
✱ So what do we do about it? Welcome Data the Superhero!

But raw data is **messy...**
(like her hair!)
and **unstructured :(**



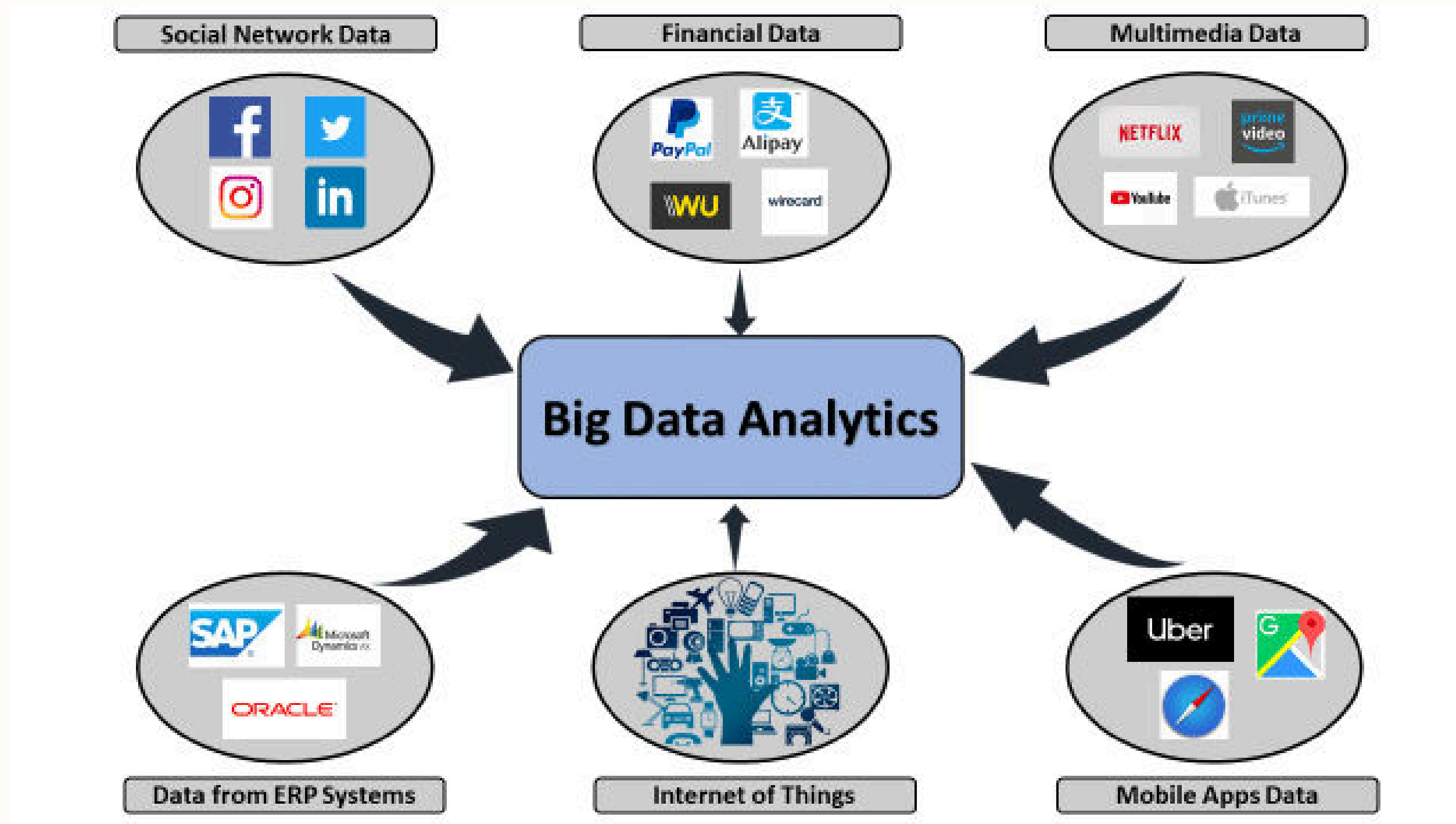
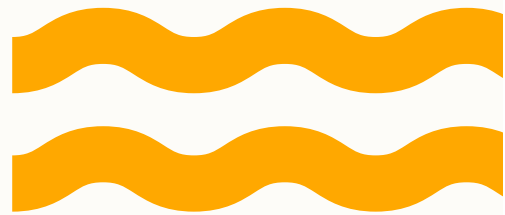
And so...behind every great AI application is a solid data pipeline!

* What is a Data Pipeline?

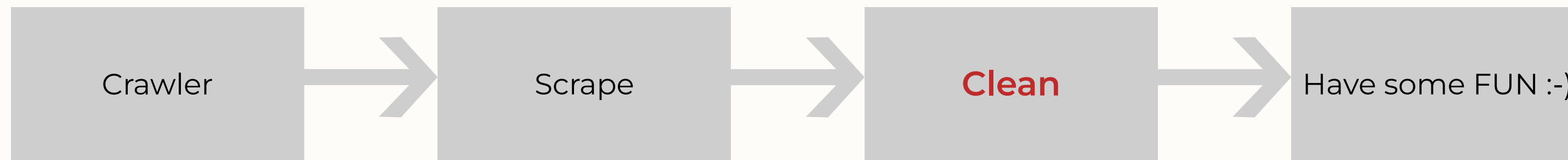




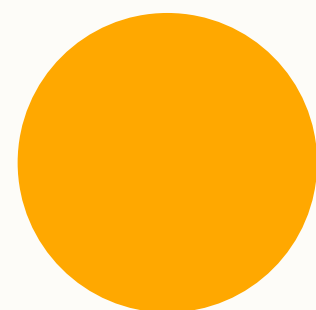
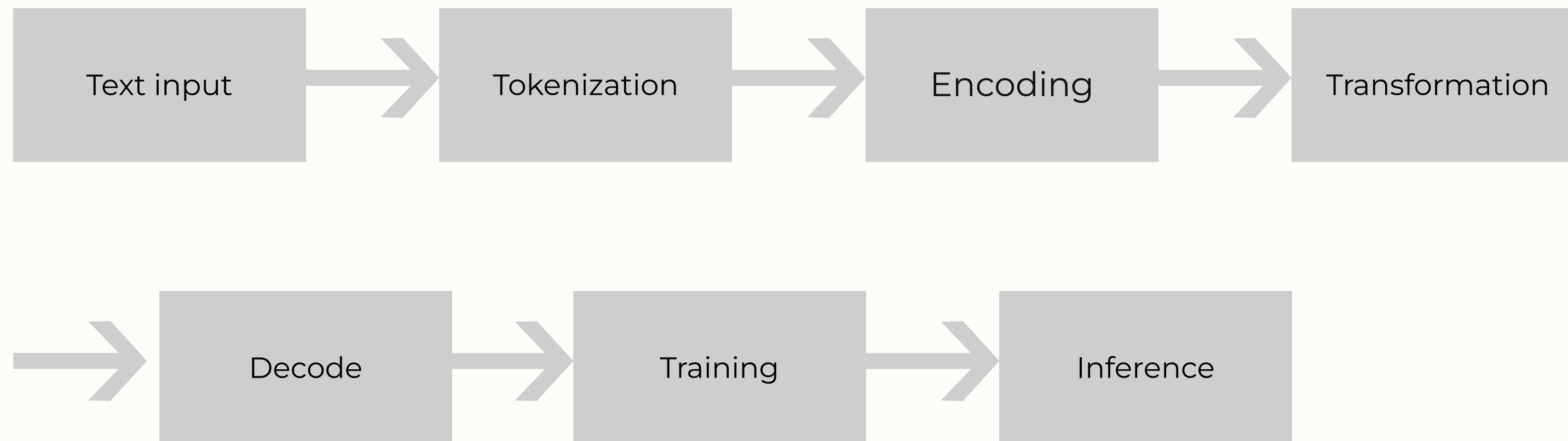
Data Extraction: Data Sources



* Scrape, Clean and Transform



* What happens in a LLM?





References



<https://github.com/gayatrib/DataPipeline/tree/main>

<https://github.com/kanishk307/IndianFoodDatasetGeneration/blob/main/Code/>



<https://github.com/gayatrib/CS410Project/blob/master/CS420Project.pptx>

<https://cobusgreyling.medium.com/run-a-small-language-model-slm-local-offline-1f62a6cbdaef>





Thanks!

Do you have any questions?

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