Large Language Models

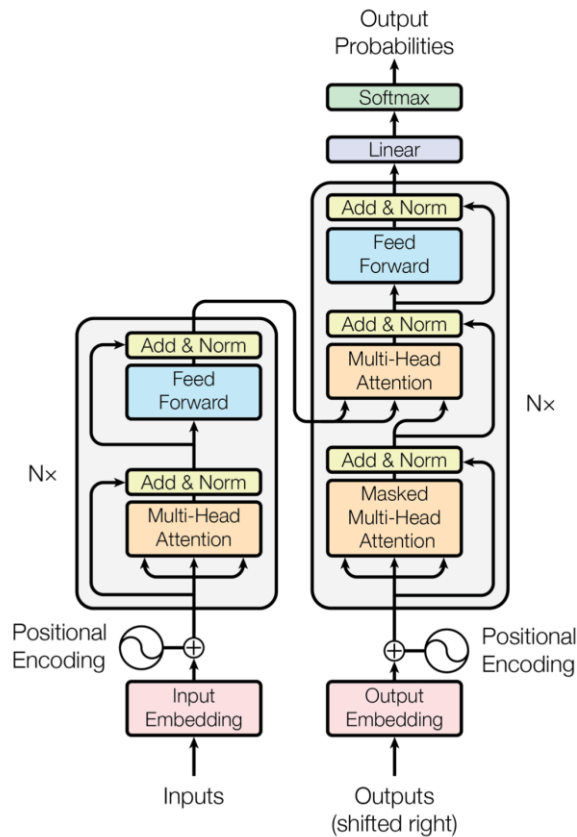## Nikita Safronov

10/16/2024

Introduction to LLMs

What Are LLMs?

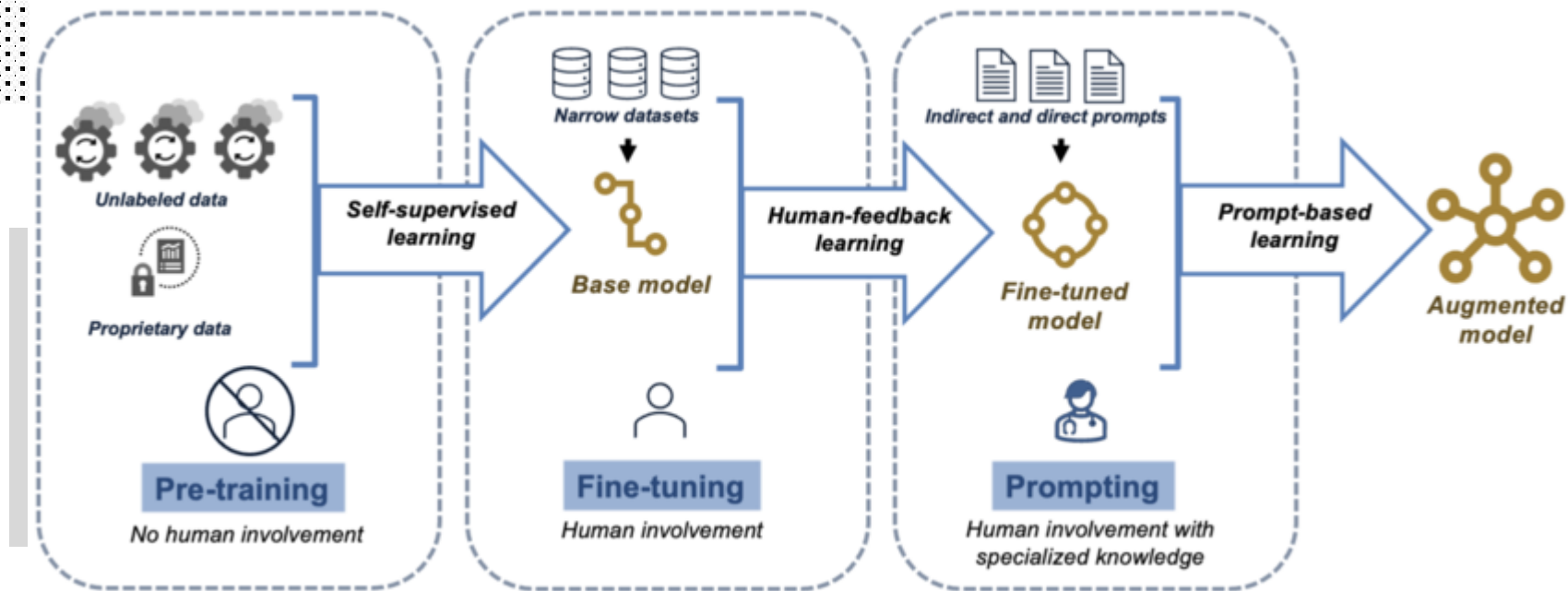- Large Language Models are AI systems designed to process, understand, and generate human language.

.Why They Matter?

- LLMs are at the core of applications like chatbots, translation tools, and automated

The Artchitecture of LLMs

Training Process
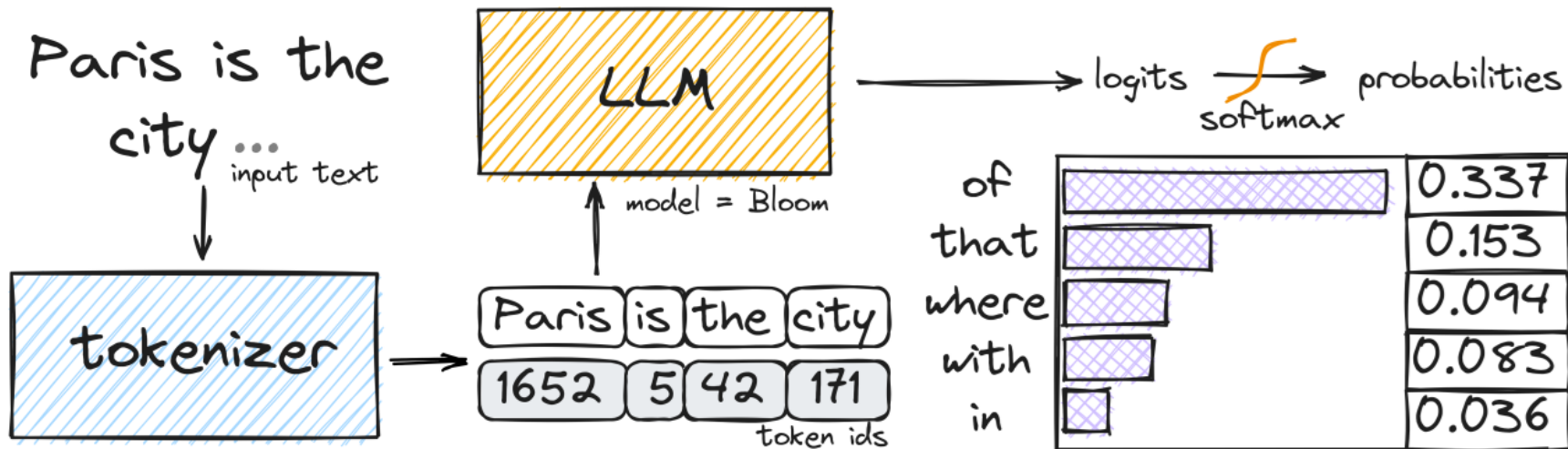
The Role of Tokens

Tokens
94

Characters
382

We're no strangers to love
You know the rules and so do I (do I)
A full commitment's what I'm thinking of
You wouldn't get this from any other guy
I just wanna tell you how I'm feeling
Gotta make you understand
Never gonna give you up
Never gonna let you down
Never gonna run around and desert you
Never gonna make you cry
Never gonna say goodbye
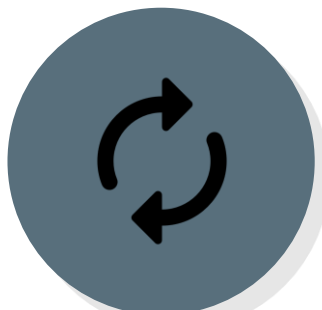Never gonna tell a lie and hurt you

Text   Token IDs

Generating Text with LLMs

Limitations of LLMs

.Lack of True
Understanding

.Bias and
Misinformation

.Ethical
Considerations

Future Directions for LLMs

Improving Efficiency:

•   Research is ongoing to make LLMs more computationally efficient without sacrificing performance.

.**Focusing on Smaller, Task-Specific Models:**

•   There's growing interest in developing

Thanks for the Attention!