Going beyond the hype of AI, understanding and unlocking AI potential in your organisation

Adam Craven

Who am I?

- Consultancy - McKinsey, HSBC, DB, RBS, Advisory to C-Suite

- Technology + business (start-up) - 17+ years.

- Enjoy doing the deep thinking. Principles.dev - Project to help align humans (and, more recently, machines).

- Worked on AI law startup earlier this year, but decided not to move forward with it.

- Available for work - Advisory/Eng/Business leadership

TOC

- Objectives

- Short presentation on AI

- Roundtable discussion + Questions

- Wrap up

Objectives
LLM focus

- Build towards sharing deeper mental models to cut through much of the hype.

- Some prepared questions that will build the knowledge towards that goal.

- Topics will cover: what has changed, stayed the same, what the hype is, regulation concerns, staffing, technologies - what you want to cover.

Magic is what we don't understand
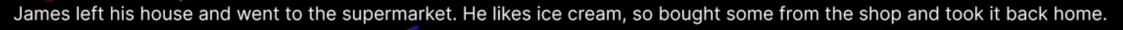
What is an LLM and how does it work?

Human language model

James left his house and went to the supermarket. He likes ice cream, so bought some from the shop and took it back home.
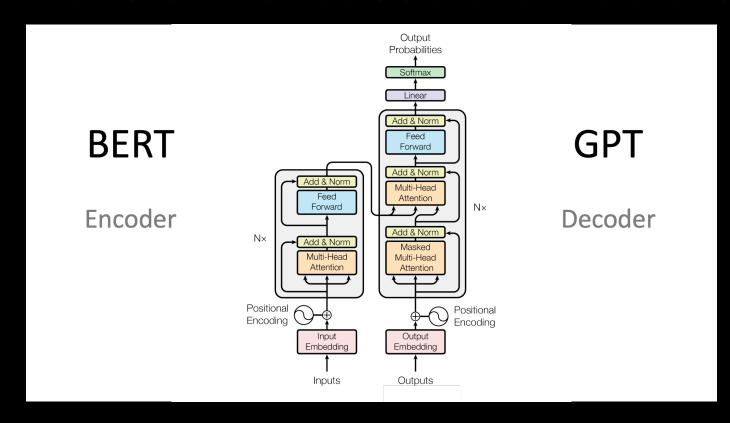
Who likes ice cream?
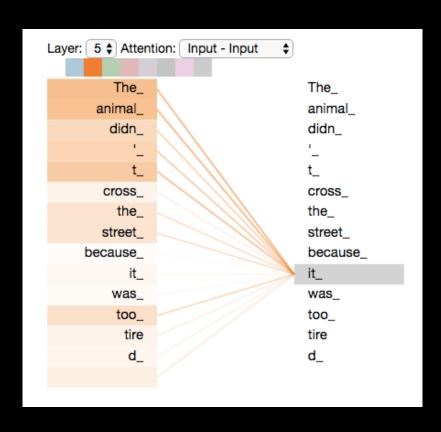
Where did he bring it back to?

The concept of Attention

James left his house and went to the supermarket. He likes ice cream, so bought some from the shop and took it back home.

LLM revolution is a revolution in attention

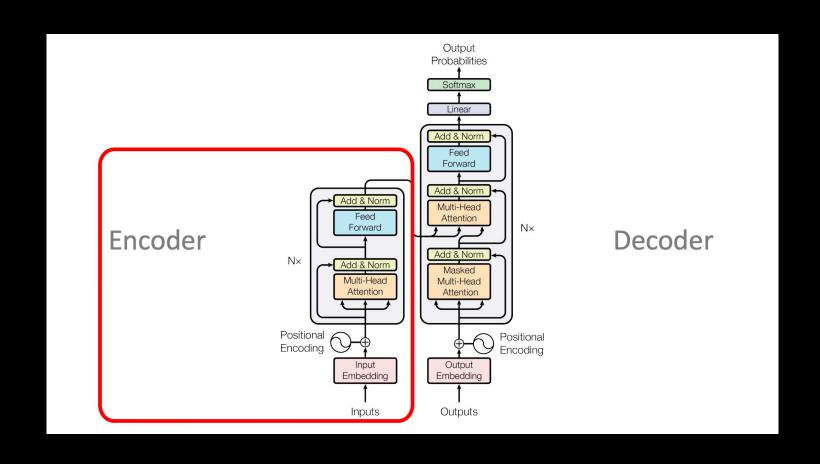## Transformer based architecture

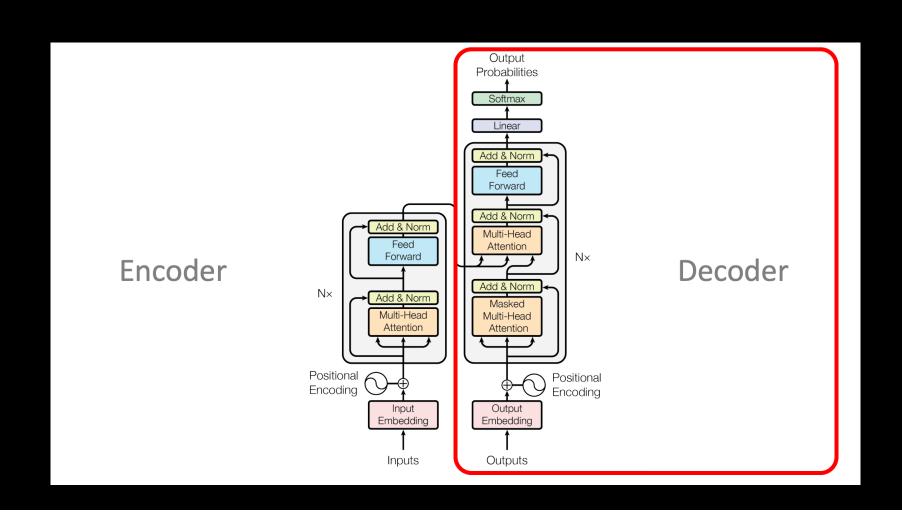# "The animal didn't cross the street because it was too tired"

The concept of Attention

James left his house and went to the supermarket. He likes ice cream, so bought some from the shop and took it back home.
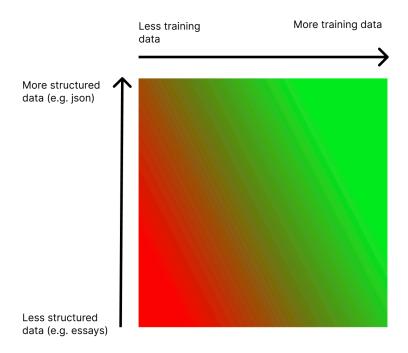
Transformers - Encoder

Transformers - Decoder

James likes ice cream

Bias is computational efficiency

LLM performance

Less training data → More training data

More structured data (e.g. json)

Less structured data (e.g. essays)

General upsides

- Translator on any data is was trained on - languages, questions, data.

- Abstraction

- Embedded data behind a natural language interface.

If you don't know the downsides, you can't evaluate tech

- Is not a search engine! (summary engine)

- Public llms: It's the journalist of experts - "Jpeg of the web"

- Propagate bias in training data and same thinking

- Generally increase entropy

- Decreased understanding, but more noise

Quick poll

- Copilot

- GPT 3.5/4.0/business preview

- LLM training?

- Investing (buying or building) in LLM-based technologies outside of GPT 4.0/3.5

- Using ML in your organisation already - outside of LLMs.

Let's begin the discussion

If you are interested in the solutions & outcomes, or you were there on the day - contact me for the full presentation