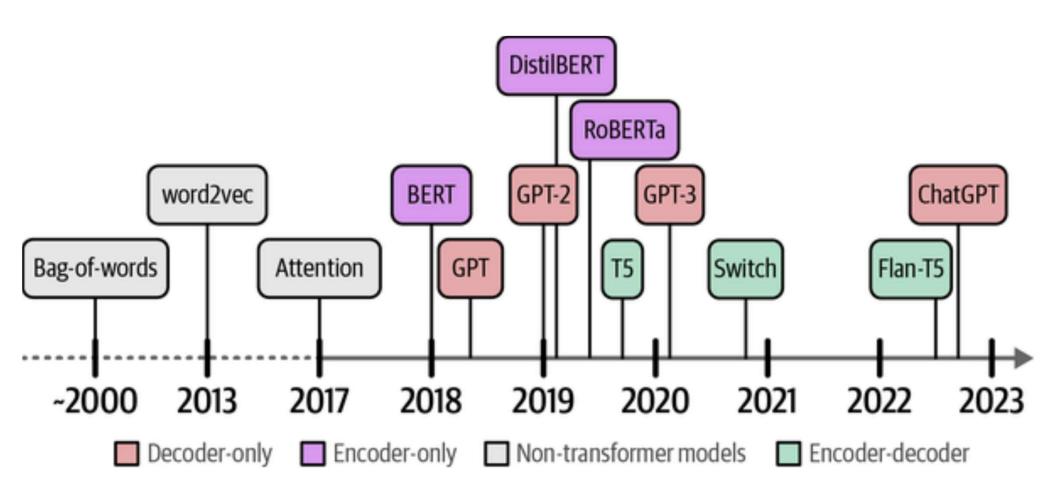
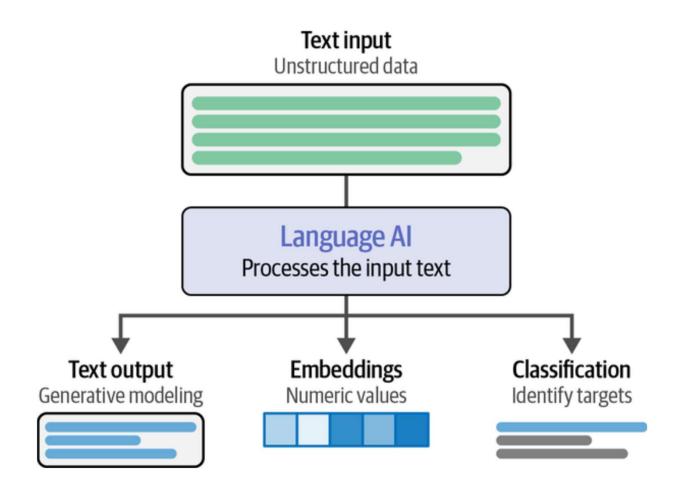
Generative AI and Agentic AI

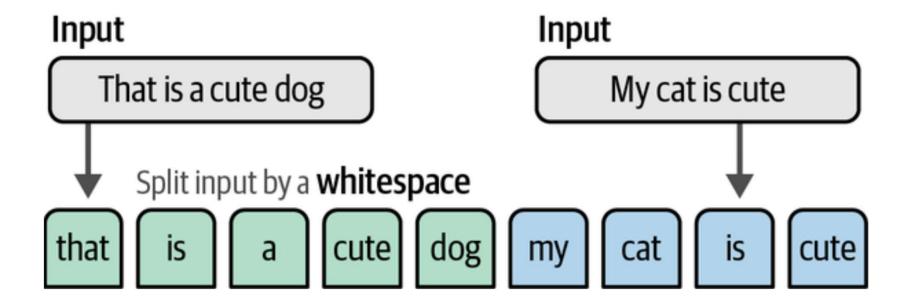
LLM Fundamentals

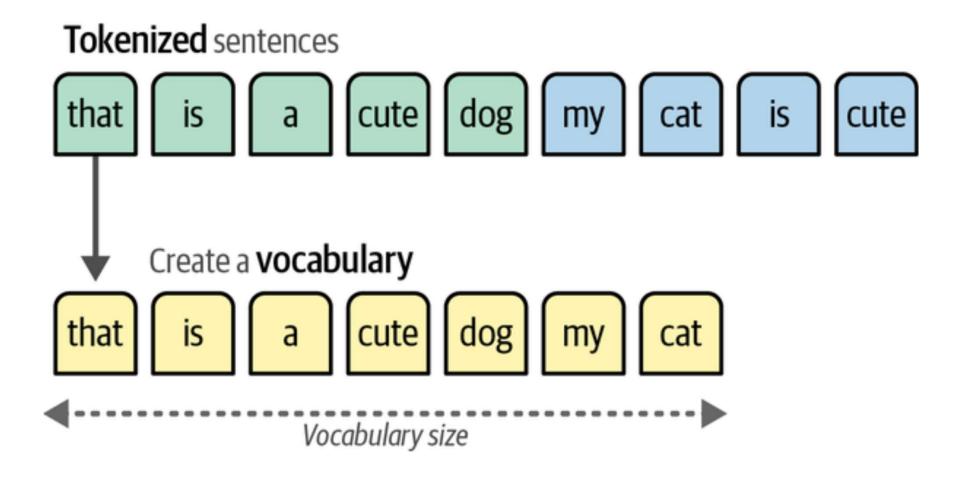
A Recent History of Language Al

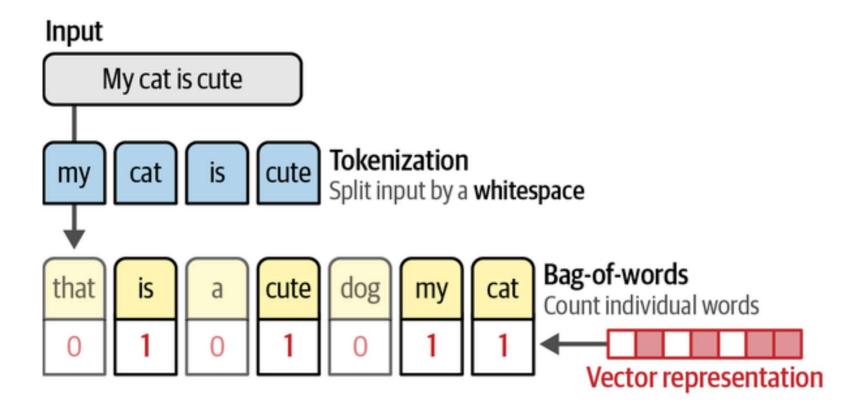


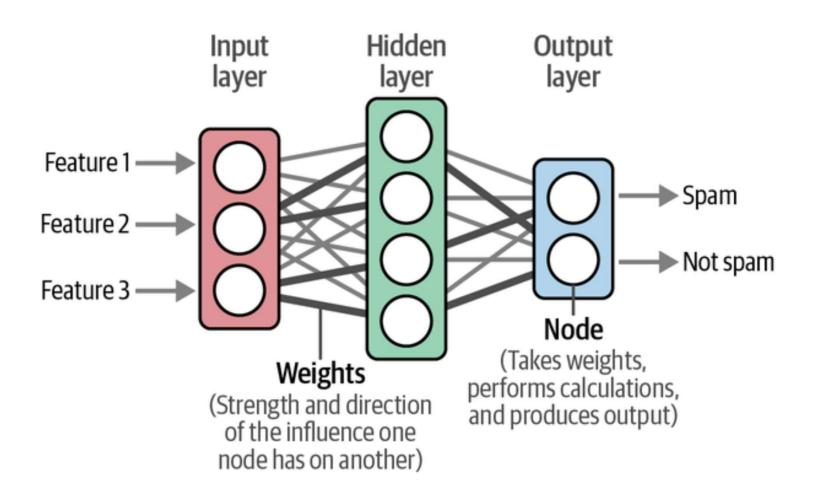
Language AI capabilities

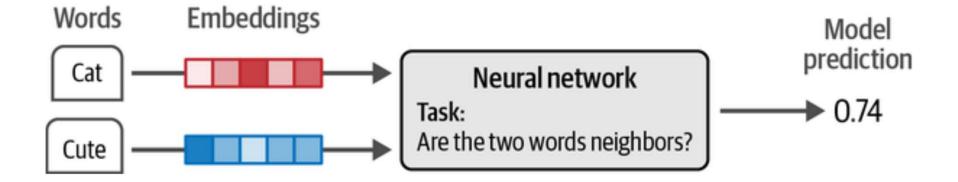


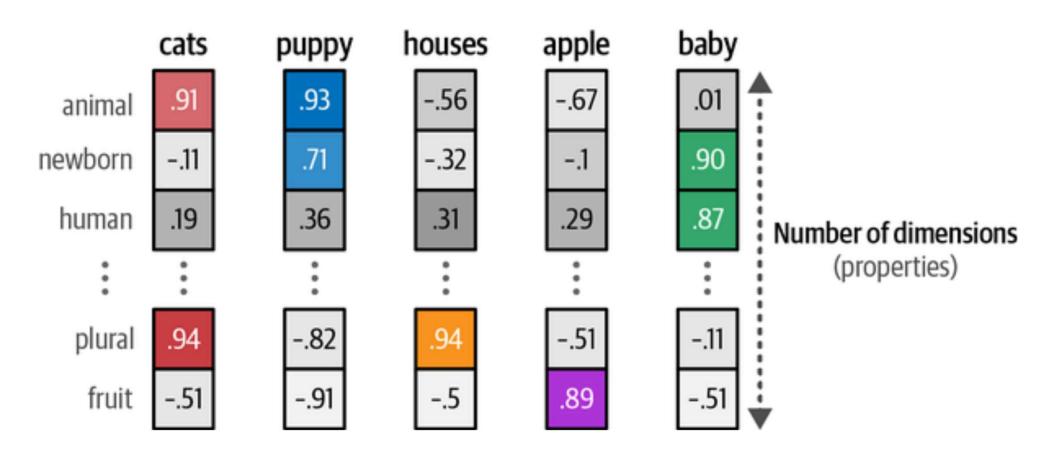


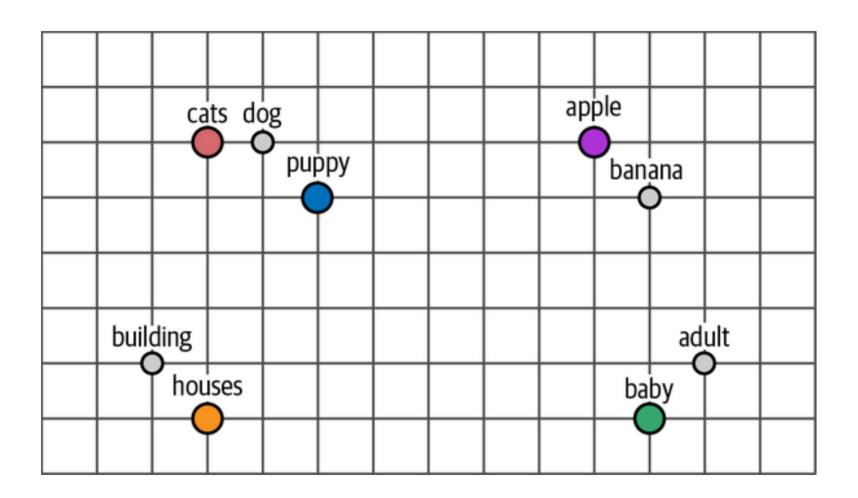


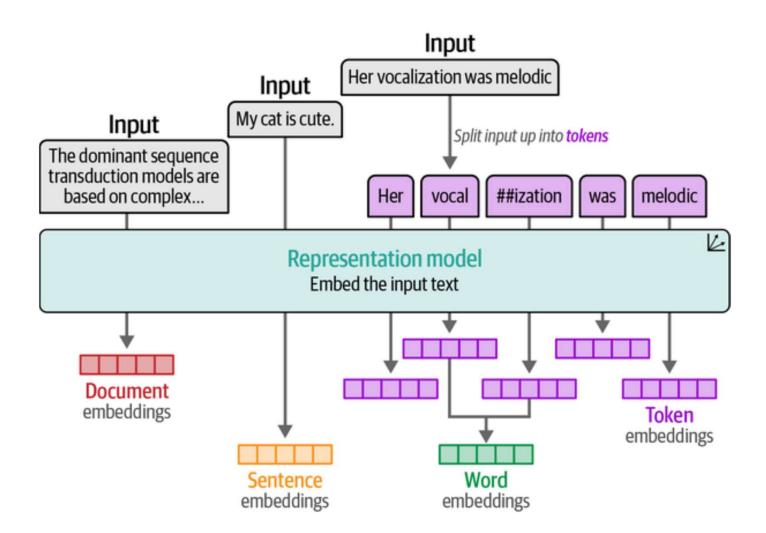


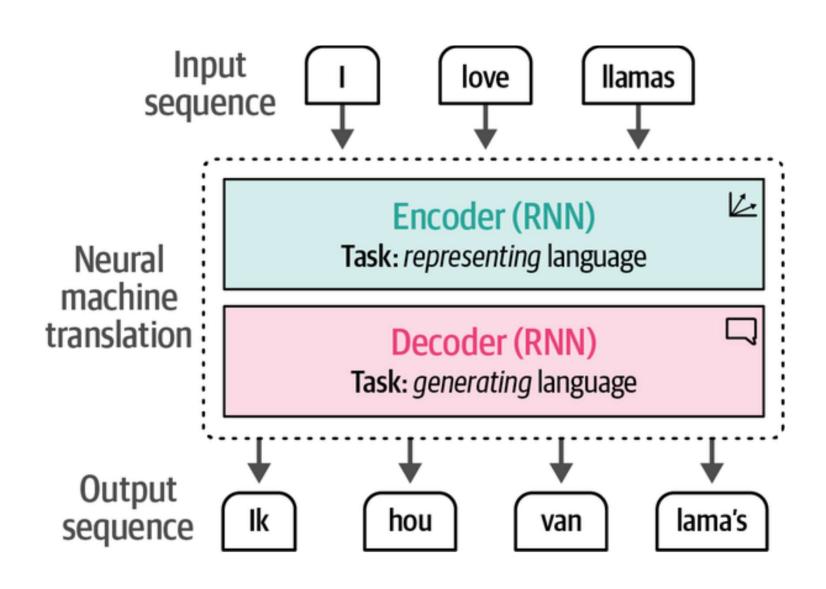


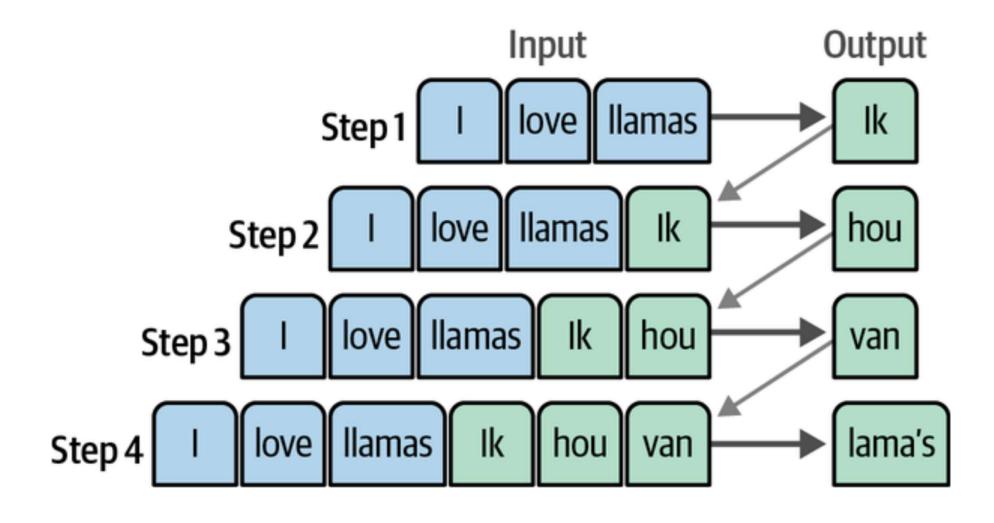


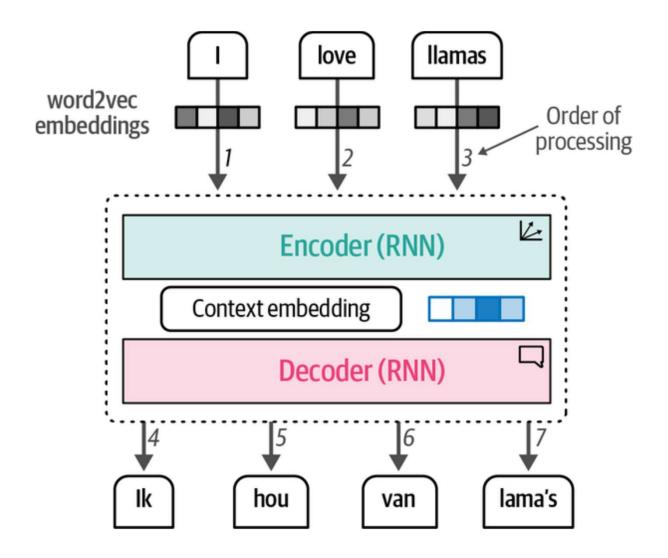




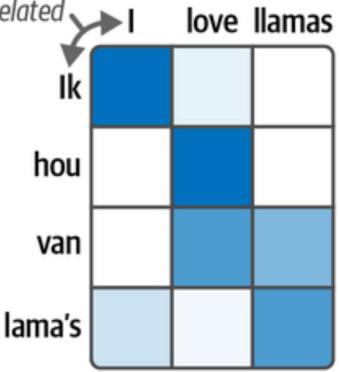


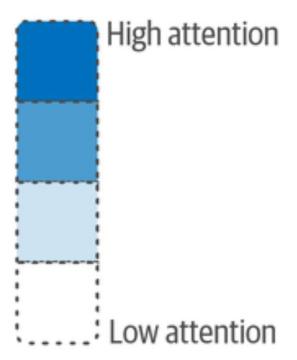


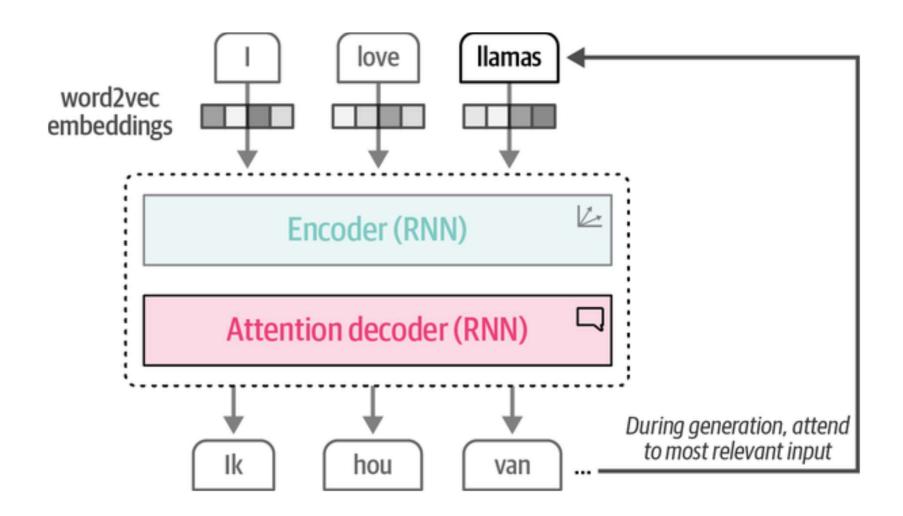




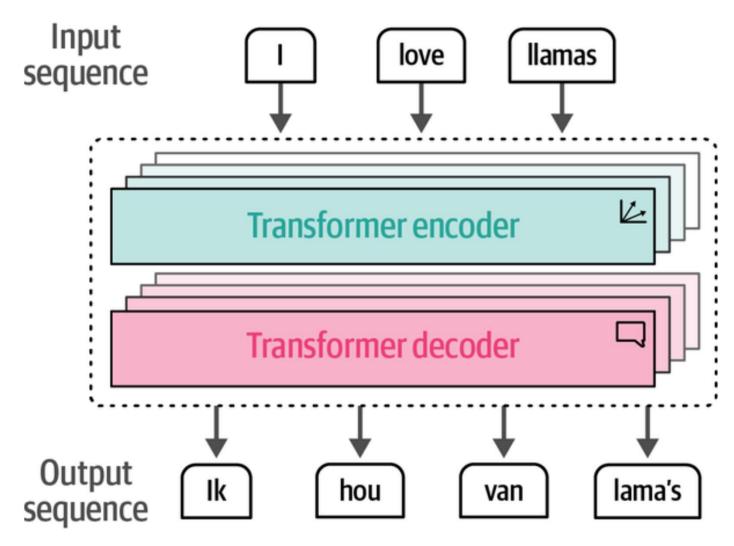
Words with similar meaning have higher attention weights since they are highly related

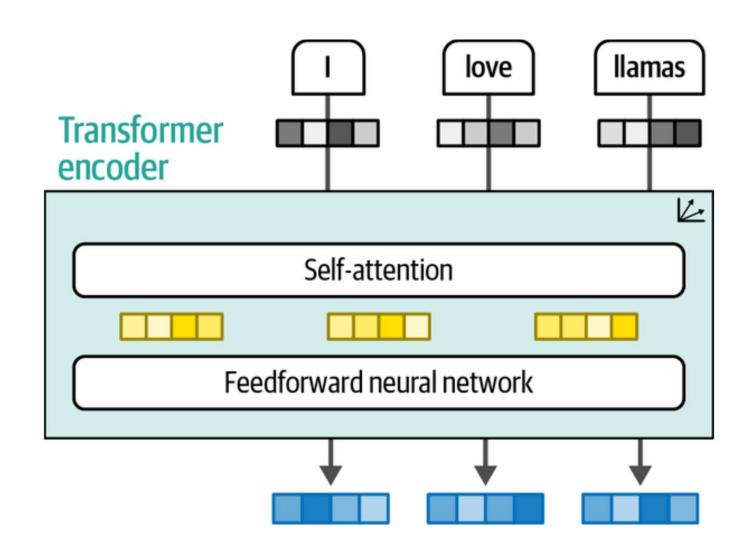


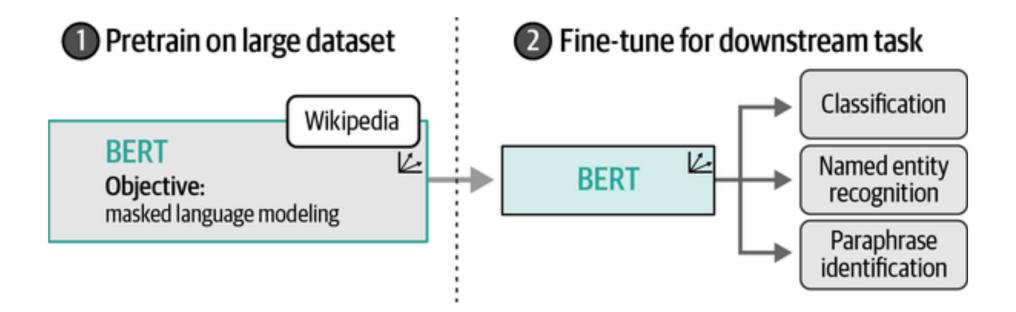




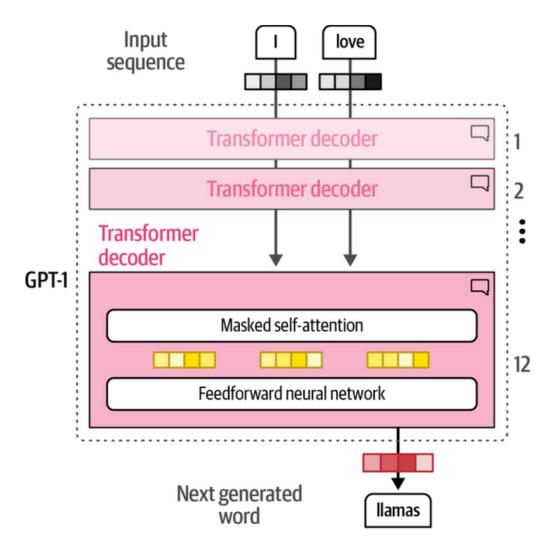
Transformer

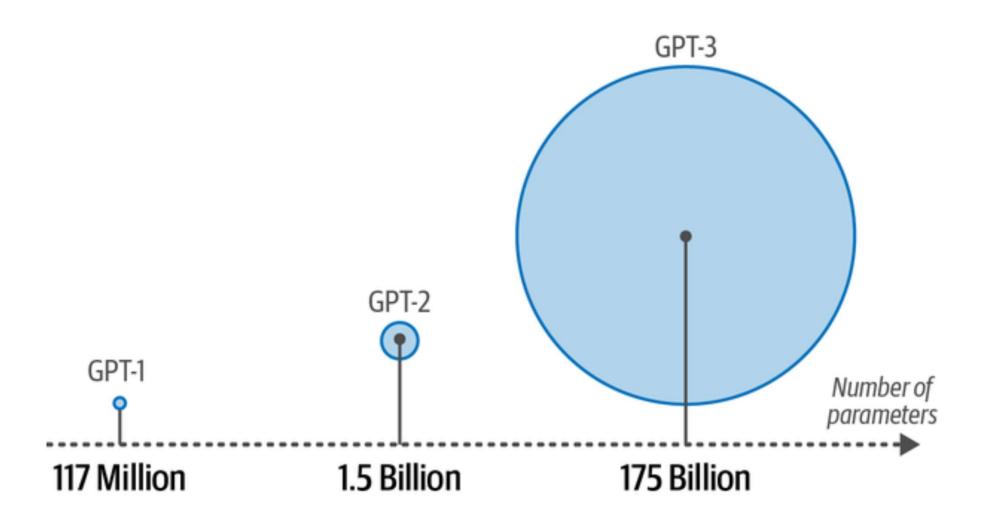






decoder-only architecture





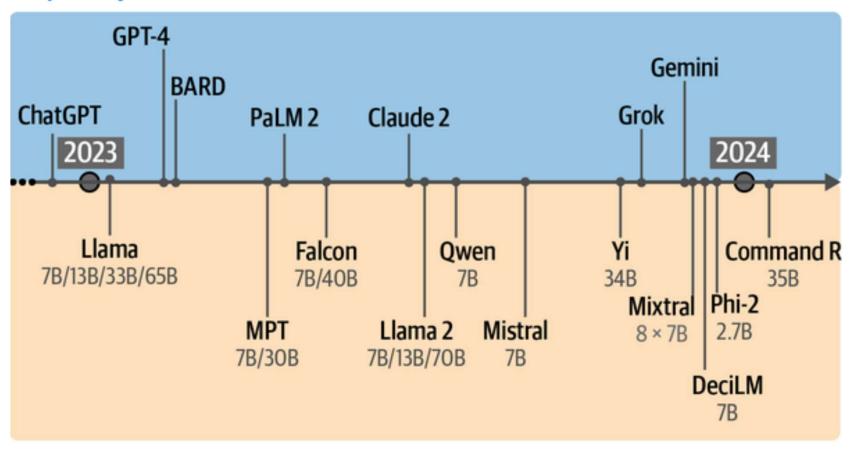
User query (prompt)

Generative LLM
Task: complete the input

Output (completion)

Llamas are domesticated South American camelids, widely used as pack animals by Andean cultures since pre-Hispanic times. With their fluffy coat, long neck, and distinctive facial features...

Proprietary models

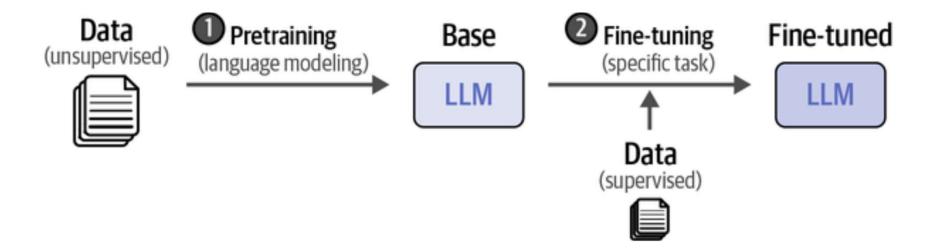


Open models

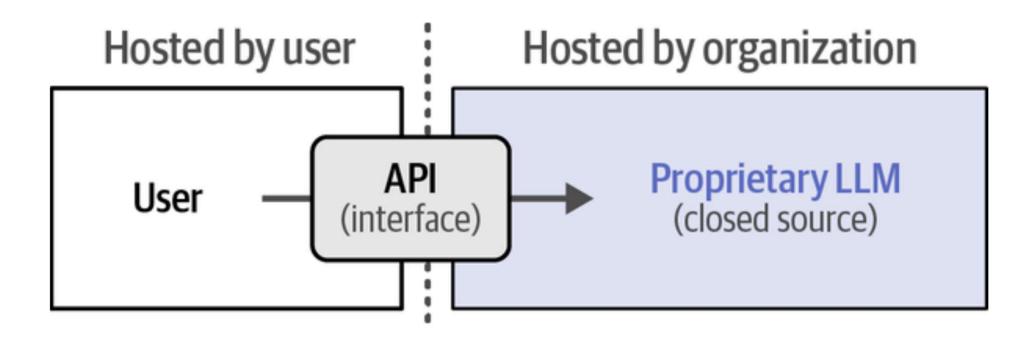
Traditional machine learning



LLM training



Closed source LLMs



Open source LLMs

Hosted by user

