

# ARTIFICIAL INTELLIGENCE

Master Class

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**Who I am**

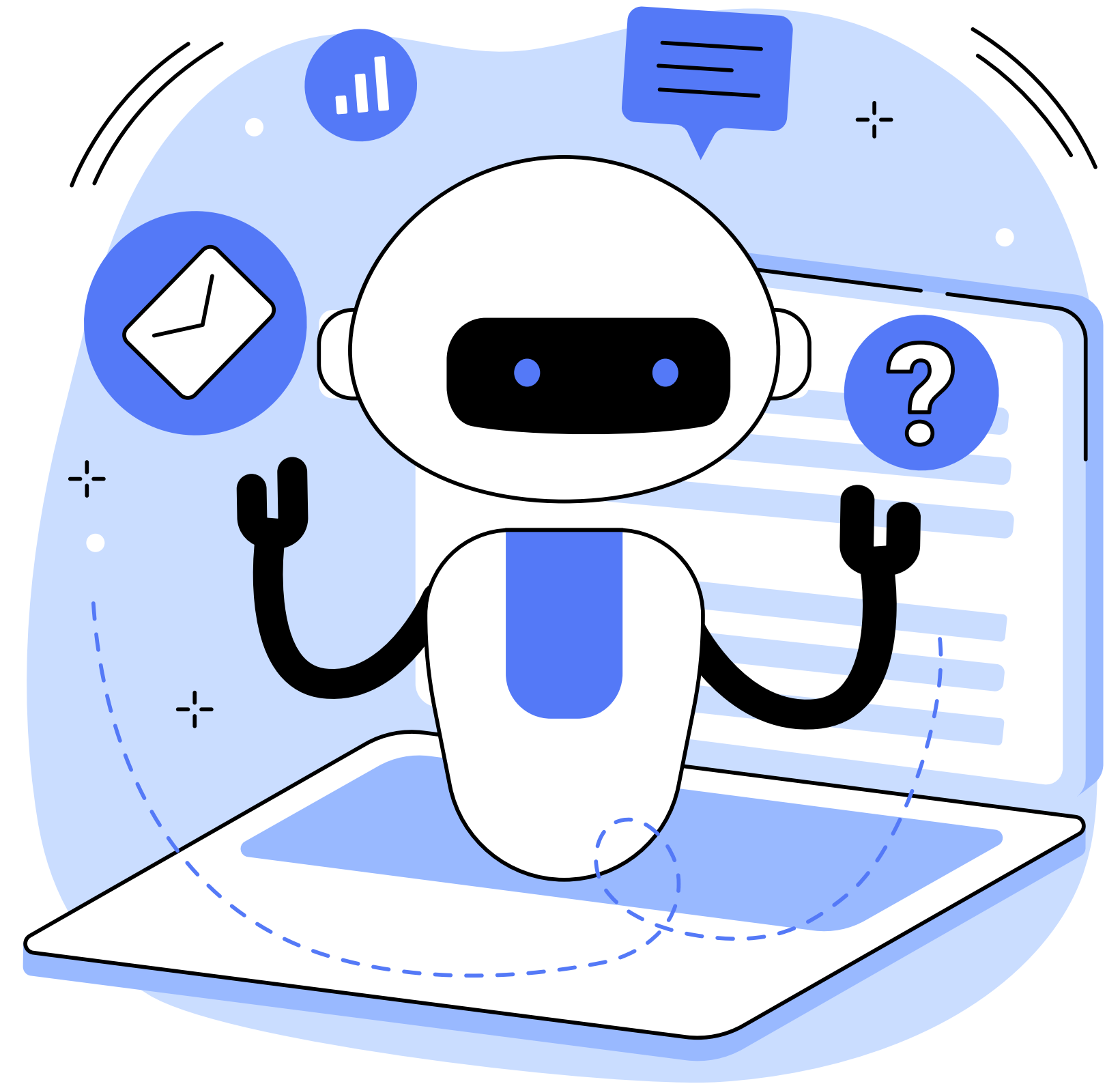
**Our process for today**

**Aim of this intensive**

# WHAT IS AN LLM?

When is a general LLM (e.g., GPT, Claude) 'good enough'—and when do you need to specialize it for your domain (e.g., medical, legal, finance)?

Name 10 other LLM's?



# 10 LARGE LANGUAGE MODELS

Claude  
(Anthropic)

Kimi  
(Moonshot AI)

Llama  
(Meta)

Grok  
(xAI/Elon Musk)

Mistral  
(Mistral AI)

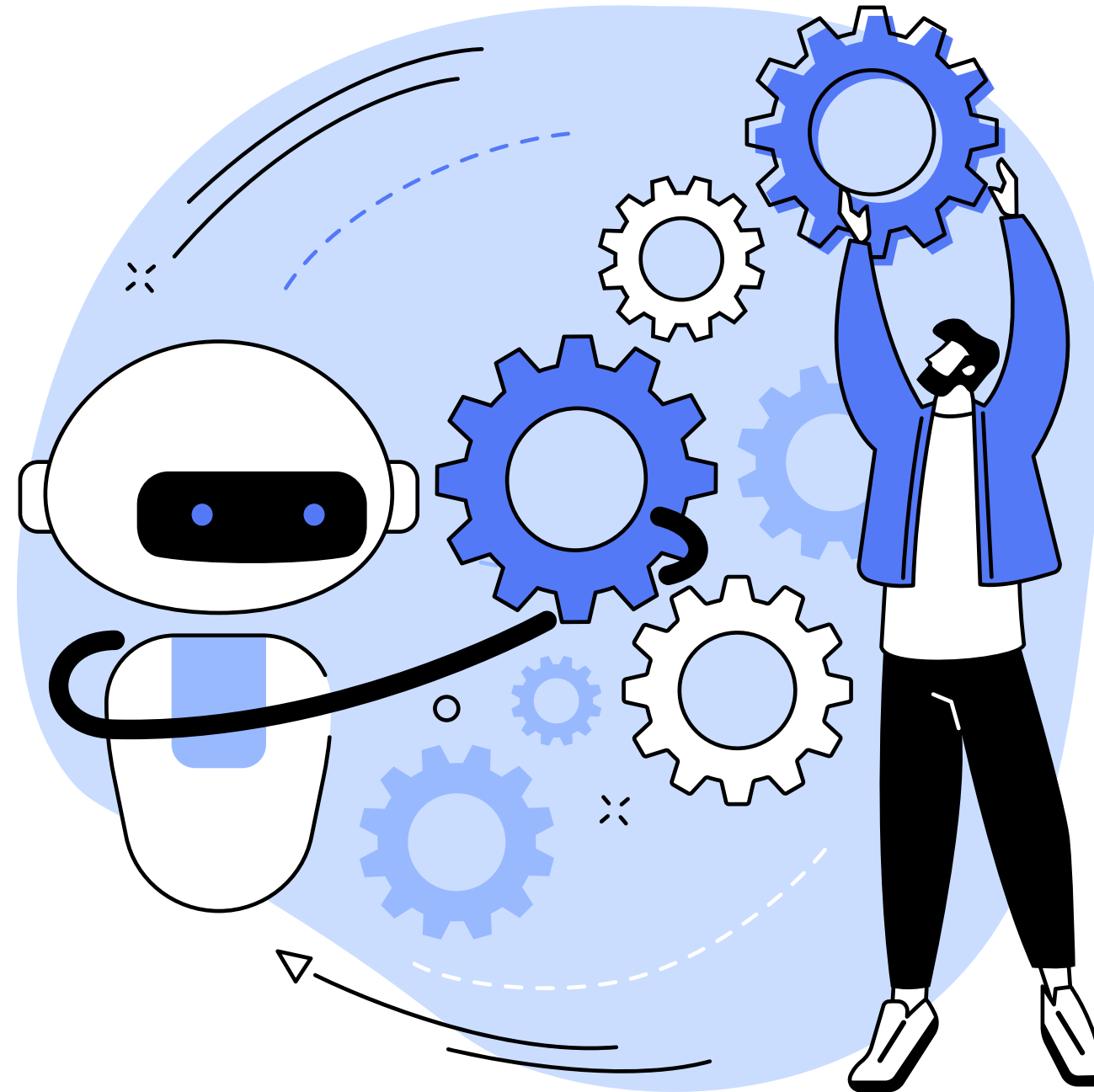
Qwen  
(Alibaba)

Falcon  
(TII/UAE)

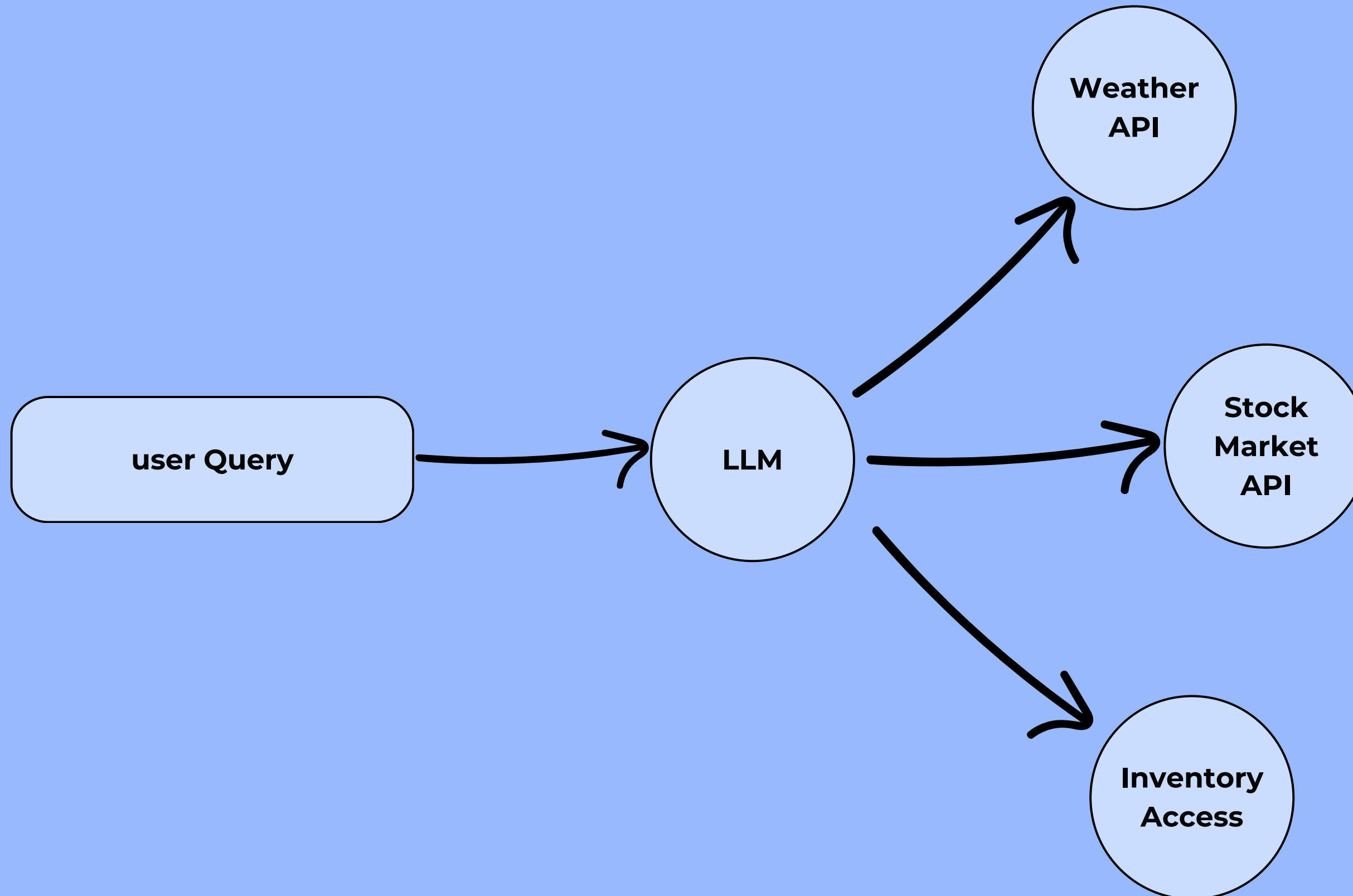
DeepSeek  
(DeepSeek AI)

Gemma  
(Google)

perplexity  
(Perplexity AI Inc.)



# LARGE LANGUAGE MODEL

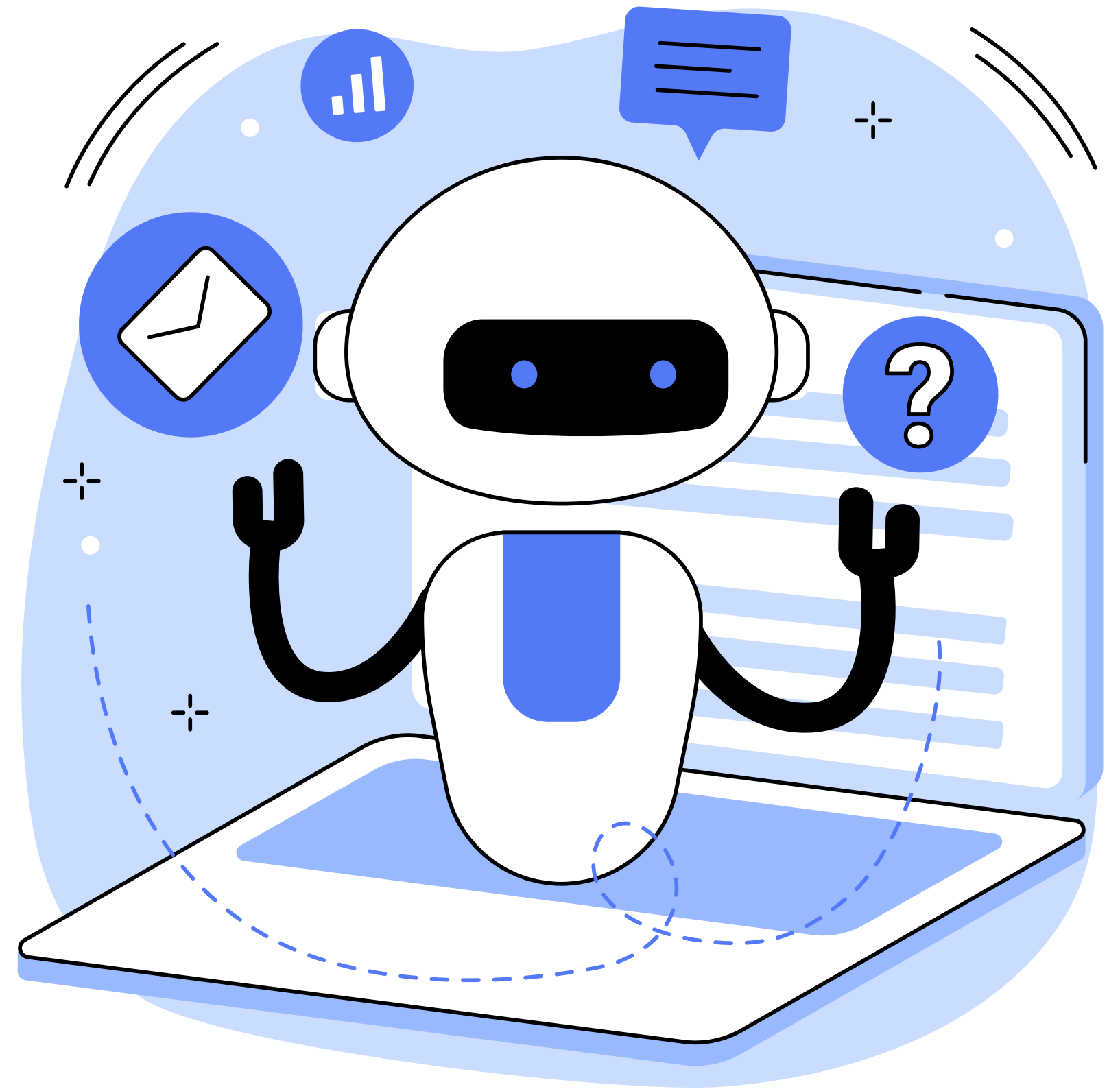


# FINE-TUNED MODELS ARE IN DEMAND

Our initial thought about AI is often LLM's like ChatGPT, but for major companies the demand is for specialized AI models



**WHERE ARE  
DOMAIN-  
SPECIALIZED LLMS  
USED  
SUCCESSFULLY**





# PRACTICAL USES OF SPECIALIZED AI MODELS

## **Fraud detection in banking**

Detects suspicious transactions by identifying patterns of abnormal spending or account activity.

## **Medical diagnosis**

Classifies medical images (like X-rays or scans) to assist doctors in spotting diseases.

## **Facial recognition, threat detection**

Sorts faces and behaviors in security footage to verify identities or spot potential risks spaces.

## **Sentiment analysis customer feedback**

Analyzes reviews, messages, or surveys to determine customer satisfaction, insights to improve.

***Discriminative AI powers accurate, real-world decision-making across industries.***

# HUGGING FACE

Hugging Face is an open-source platform and community that hosts, shares, and collaborates on machine learning models, datasets, and AI applications.

<https://www.huggingface.co>



# OPENROUTER

OpenRouter acts as an aggregator or unified API gateway for multiple large language models (LLMs).

<https://www.openrouter.ai>



# GITHUB

Each day we will generate code  
which will live in the repo below

<https://www.github.com/kingsley-ijomah/ai-master-class>



# GOOGLE COLAB

Google Colab is a free cloud-based Jupyter Notebook service enabling users to write, execute, and share Python code with GPU/TPU support.

<https://www.colab.google>





**THANK YOU FOR  
LISTENING!**