



ARTIFICIAL INTELLIGENCE

Master Class

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Who I am

Our process for today

Aim of this intensive

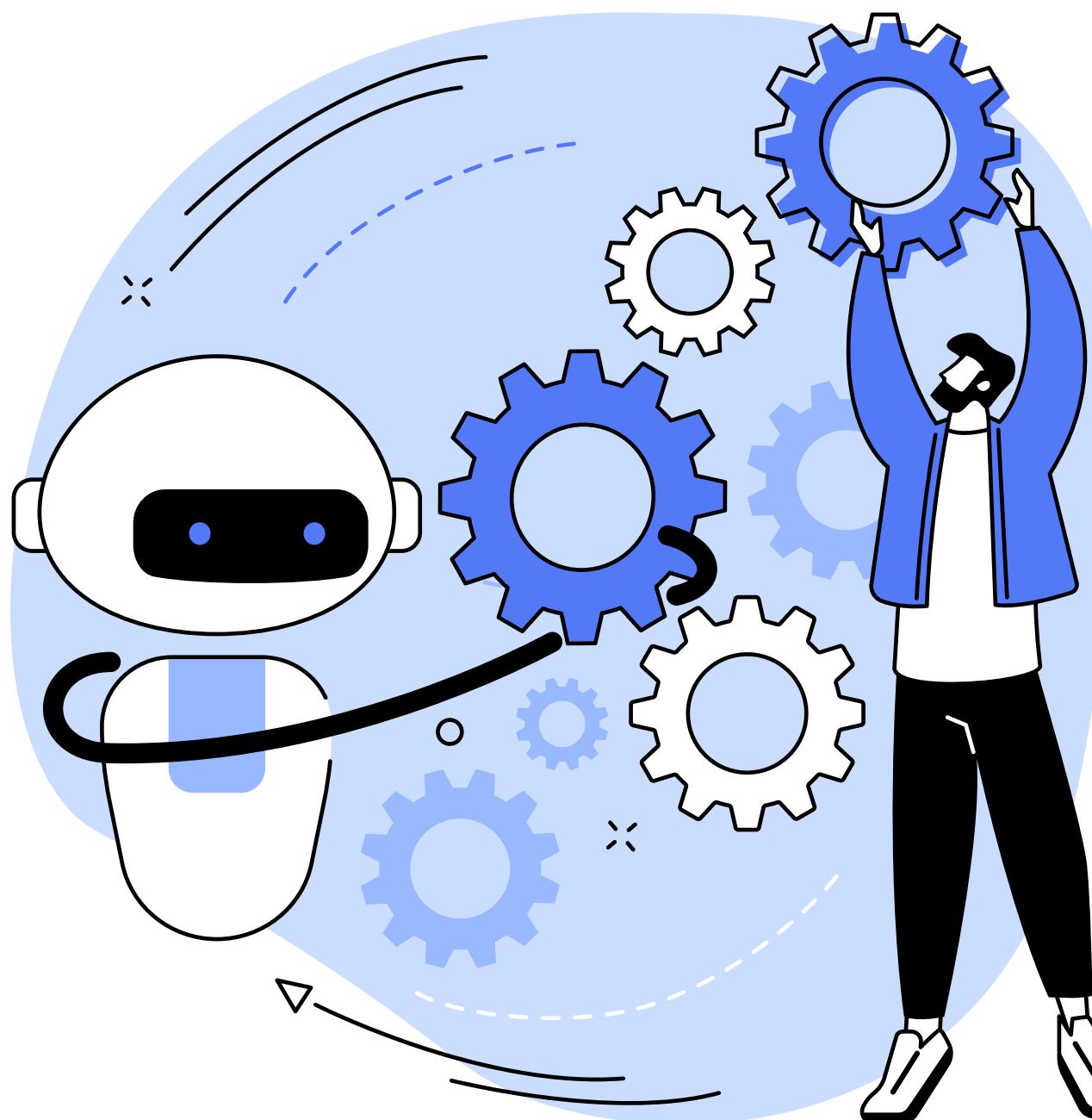
WHAT IS AN LLM?

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)

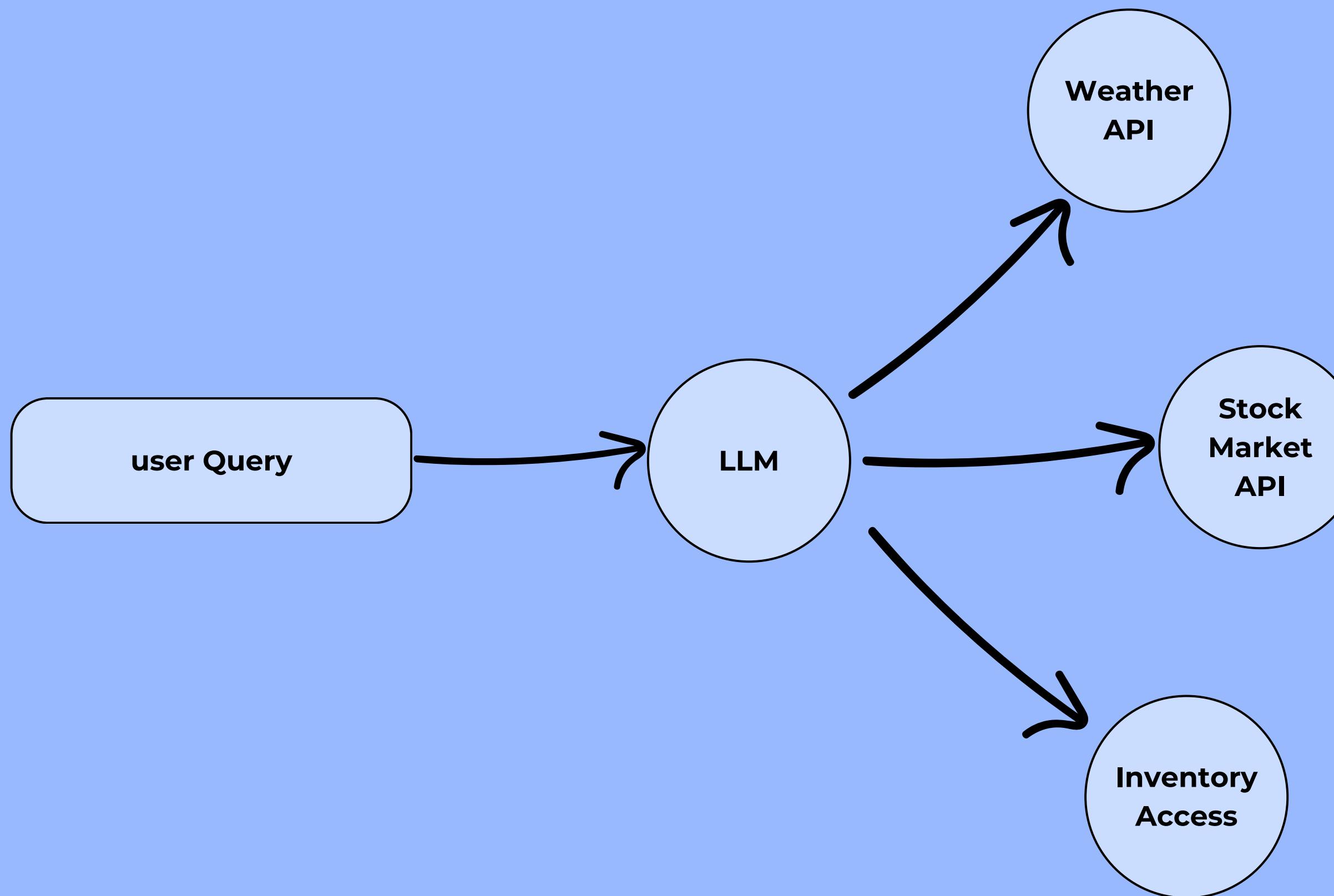
Falcon
(TII/UAE)

DeepSeek
(DeepSeek AI)

Gemma
(Google)

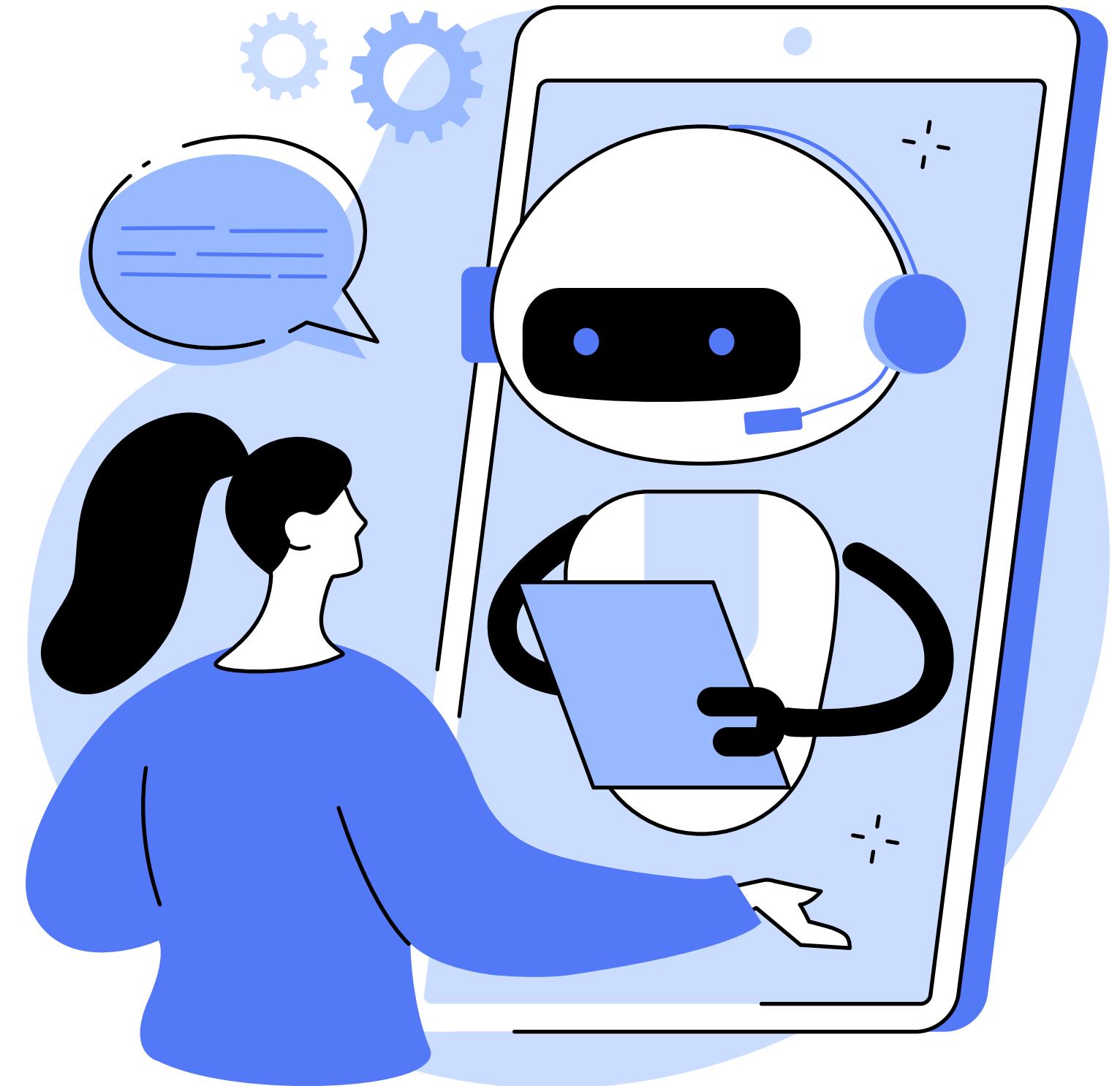
perplexity
(Perplexity AI Inc.)

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).

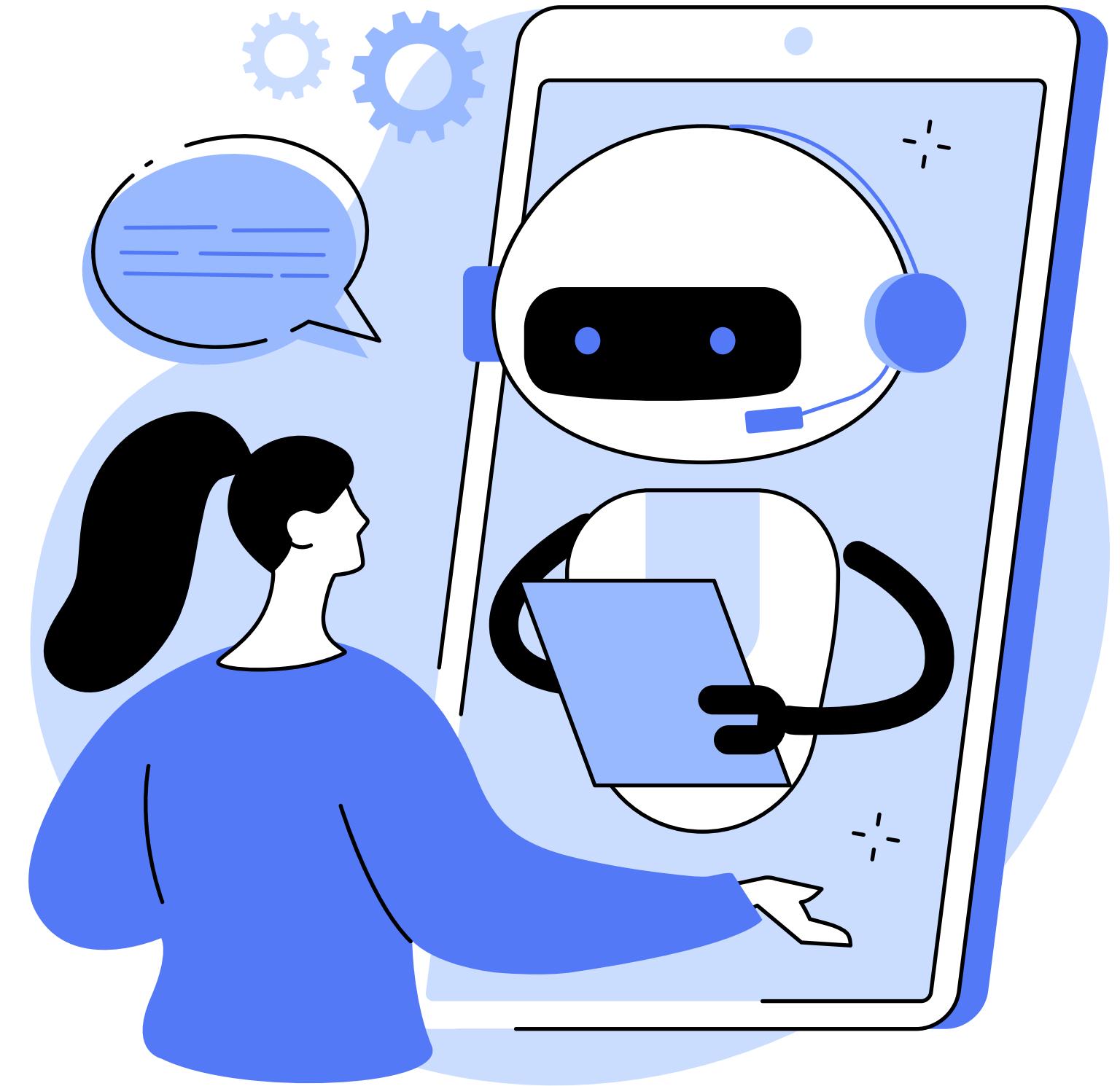
<https://www.openrouter.ai>



GITHUB

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

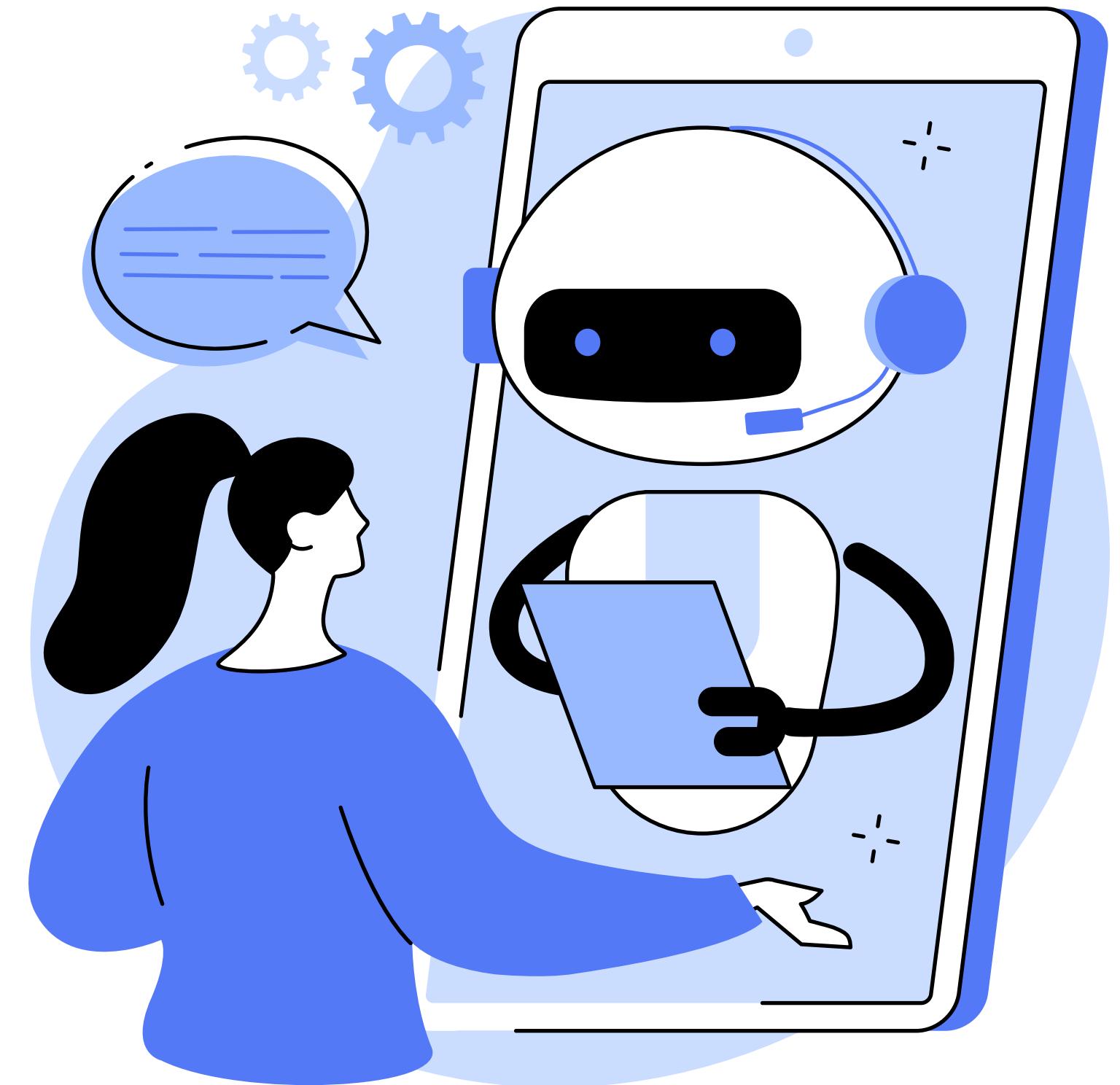
<https://www.github.com/kingsley-ijomah/ai-master-class>



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!**