



AI AWARENESS

UNVEILING GENERATIVE AI



Demos

Conversational Assistance



ChatGPT

November 2022



March 2023

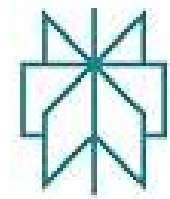


March 2023



Microsoft
Copilot

February 2023



perplexity

December 2022



Meta AI

September 2023

Vibe Coding - Ideas to App

Build something  Lovable

Idea to app in seconds, with your personal full stack engineer

Ask Lovable to create a portfolio

Attach

Public

Real estate listings

Remotion video

Startup dashboard

Recipe finder

v0

New Edit faster with Design Mode Try it now >

What can I help you build?

Ask v0 to build...

v0-1.5-md

Clone a Screenshot

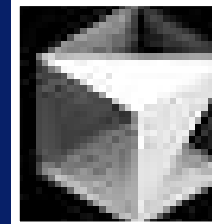
Import from Figma

Landing Page

Sign Up Form

Calculate Factorial

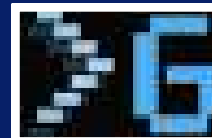
GitHub Copilot



CURSOR



windsurf



GEMINI CLI



QWEN3-CODER



replit

Hi Amol, what do you want to make?

Describe an app or site you want to create...

App type: Auto



Start chat

Link in bio

AI chat

Smart meal planner

CREATE WITH ROSEBUD AI

Vibe Code Games

Make a Game from Templates



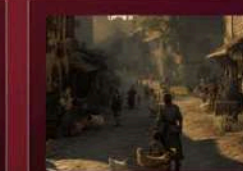
Voxel Forest



Alien Crystal Planet Template



Horror Template



First-Person RPG



Desert Dunes

HOSTINGER Horizons

Launch your idea today

Build fully functional websites and web apps by simply chatting with AI. Launch in 1 click – no coding, no delays.

Create a prototy



Start for free. No credit card required.

What do you want to build?

Prompt, run, edit, and deploy full-stack **web** and **mobile** apps.

How can Bolt help you today?



or import from

bolt.new

Figma

GitHub

Hello, amol

What do you want to build?

Prototype an app with AI

An app that helps me plan my day



Tipping Calculator

Recipe Generator

ERP Dashboard

Expense Tracker

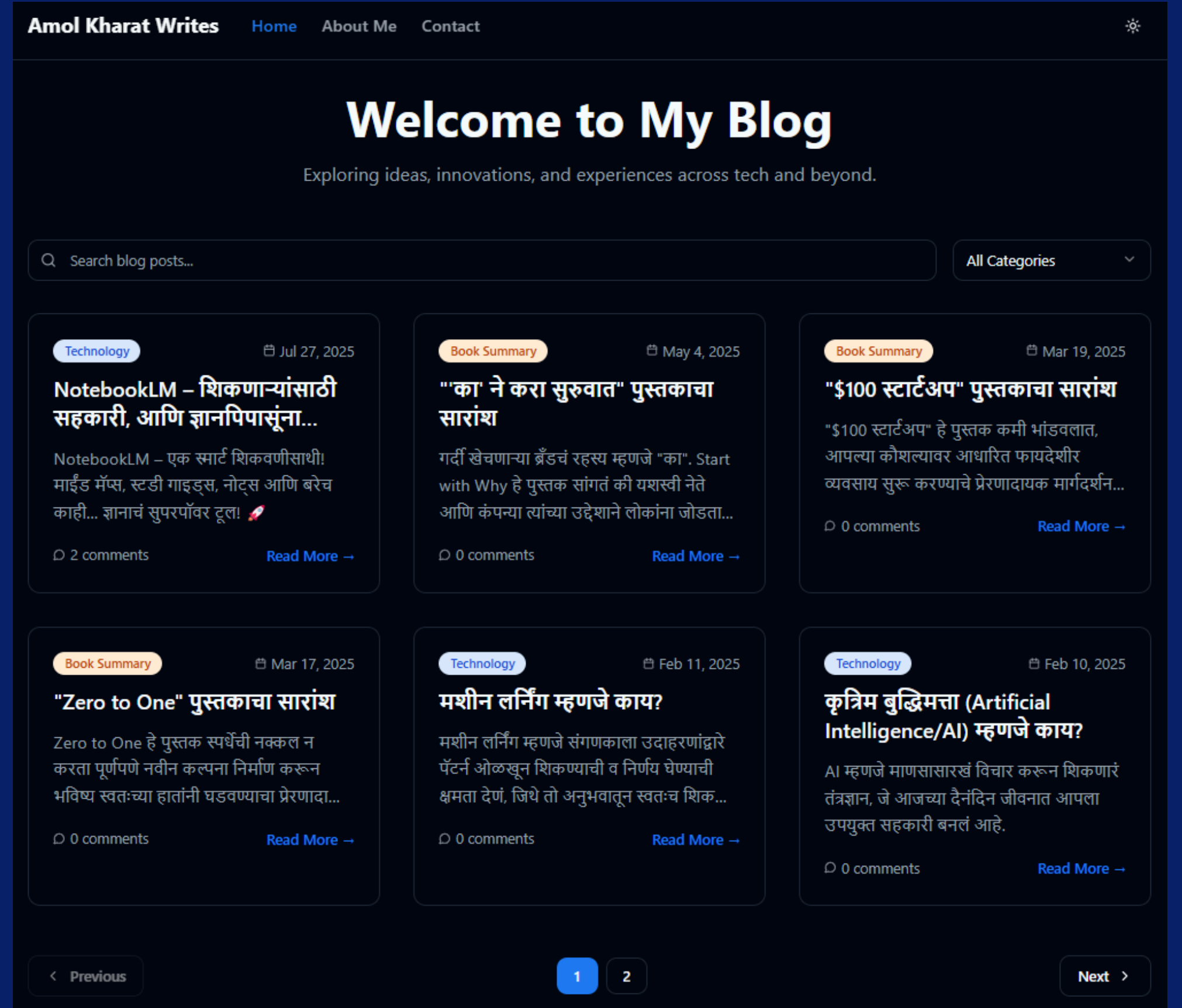
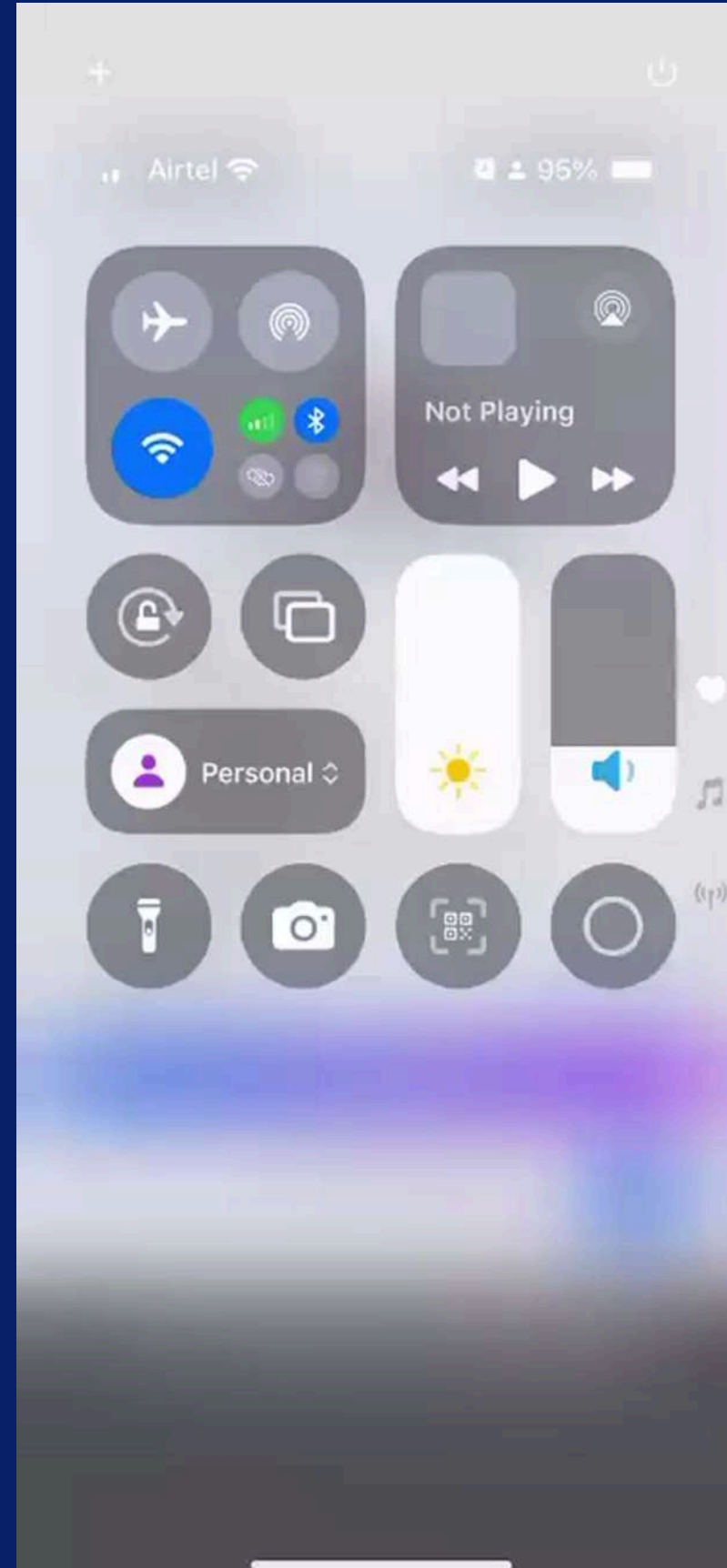
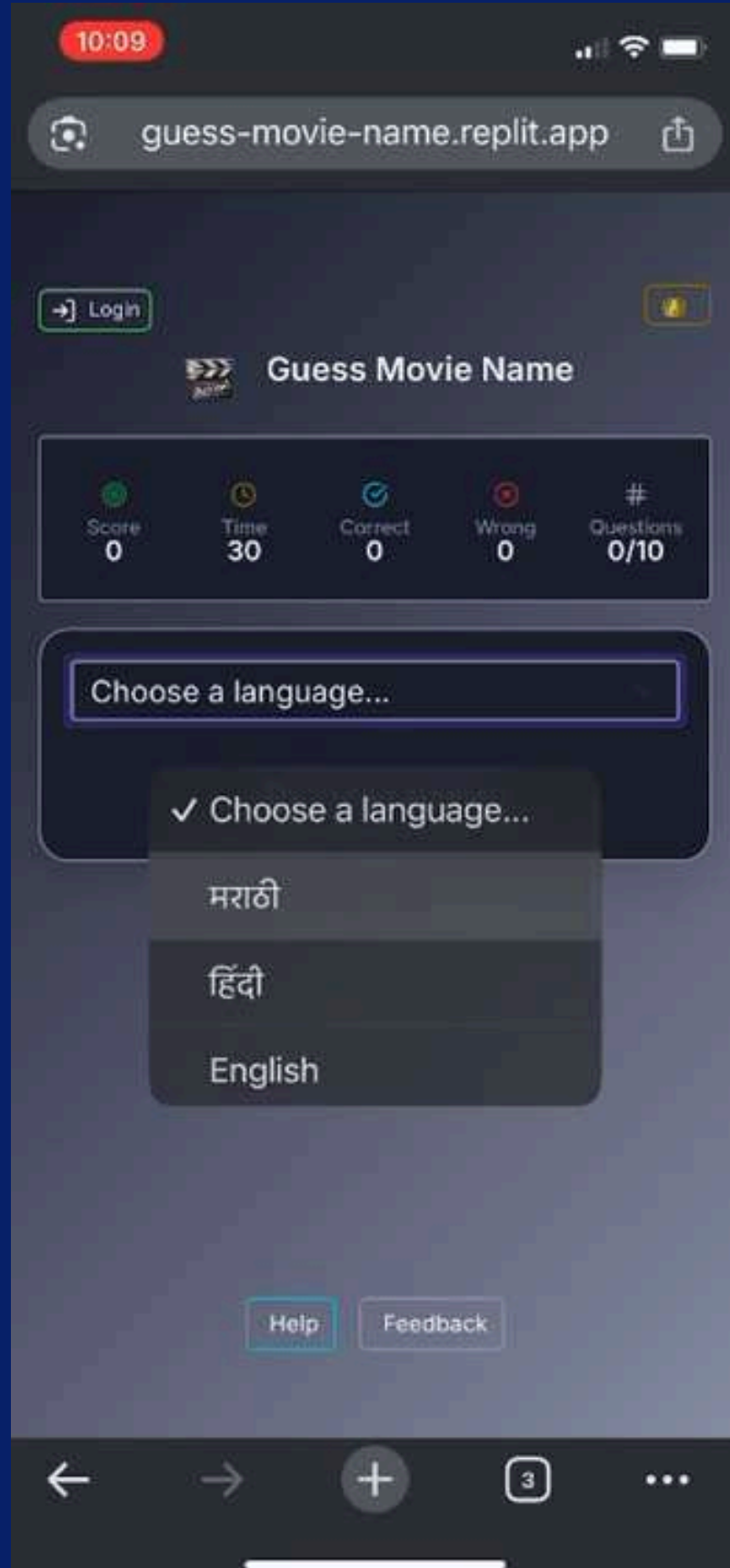
Landing Page

I'm Feeling Lucky



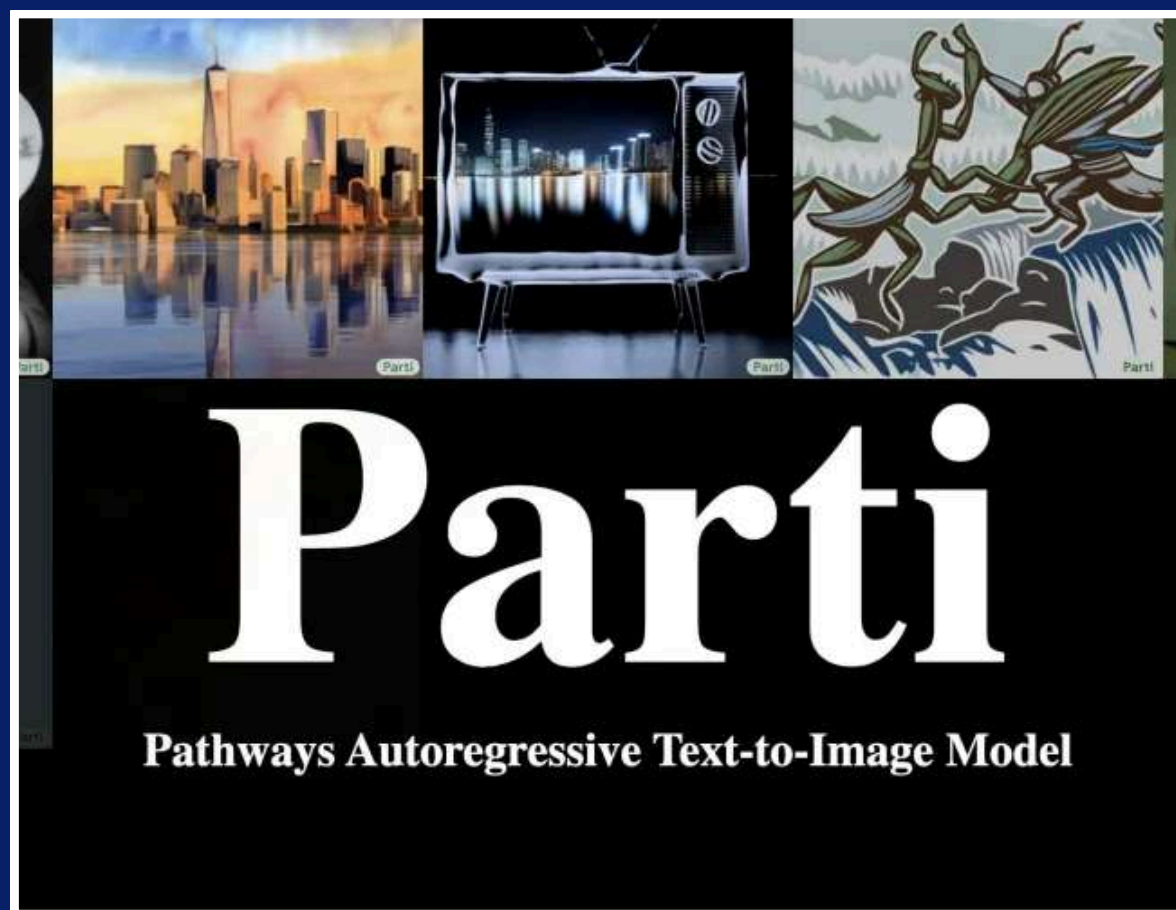
Firebase Studio

Vibe Coding - Ideas to App



<https://blog.amolkharat.in>

Text to Image



A futuristic programmer with 6 robotic arms, writing code on holographic screens, while an AI assistant floats beside them debugging in real-time and a drone serves chai.



Google Veo

Text to Video



A curious young woman sitting at her desk, looking overwhelmed by a long to-do list. Suddenly, futuristic blue light particles swirl around her laptop as Generative AI tools come to life — an AI assistant helps her write emails, generate a presentation, create a music track, and design a poster — all within seconds. Her face lights up with surprise and joy. The scene transitions to her confidently presenting her work in a meeting, with teammates clapping. End with the caption: 'Generative AI — Your Creative Partner.'

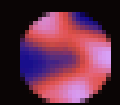


OpenAI Sora

Text to Music

प्रेम की बातें, मोहब्बत का सफ़र

A R Rahman style, With guitar and piano, Classic Bollywood,



EntertainingJam7110



1



1



14 November 2024 at 3:14 pm

v3.5



जब भी चलें, प्रेम की राहों पे, छोड़ आएं, दर्द के साये कहीं पीछे, हर कदम, मोहब्बत का एहसास करे, जैसे हवा, इश्क की मिठास भरे।

तेरी बातें, छूती हैं दिल की जमीं, जैसे गीली मिट्टी में बसी हो महक कोई, खामोशी में इश्क की आवाज़ें सुनूं, जैसे बारिश की बूंदों में छुपी हो नमी।

मोहब्बत का ये मौसम, बहके-बहके, हर पल में तू, हर सांस में बहके, तेरी नज़रों में छुपा है जो इश्क, उसमें खोकर, मैं खुद को भी भूलूं।

तेरा चेहरा, मेरे ख्वाबों में खिला, जैसे चांदनी रात का सितारा जला, इश्क में खो जाएं, प्रेम की छांव में, तू और मैं, बस मिलें इस पलाव में।

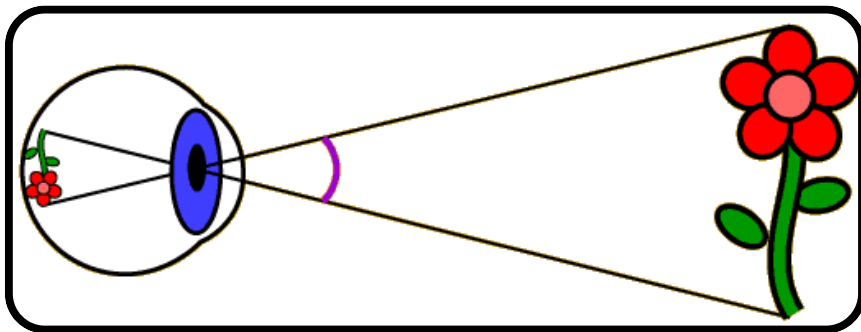
ये प्रेम की बातें, मोहब्बत का सफ़र, तेरे संग है मेरा हर एक सफर, इश्क में डूबा है दिल का समंदर, तेरी बाहों में मिले सारा जहां, मेरा घर।

Artificial Intelligence

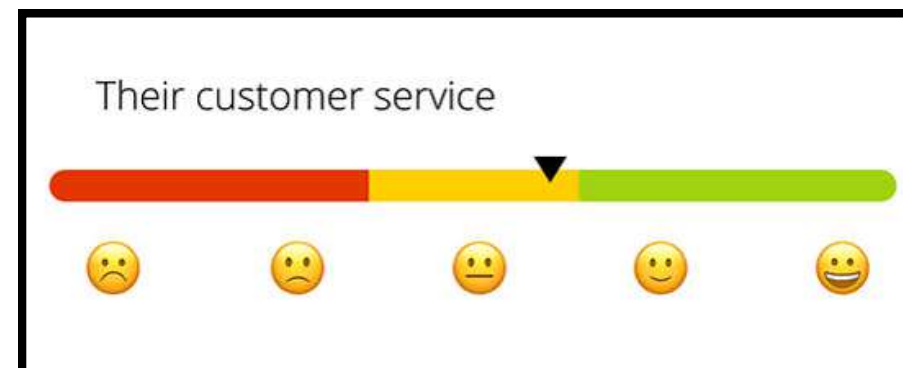
What is Artificial Intelligence?

Human like Capabilities

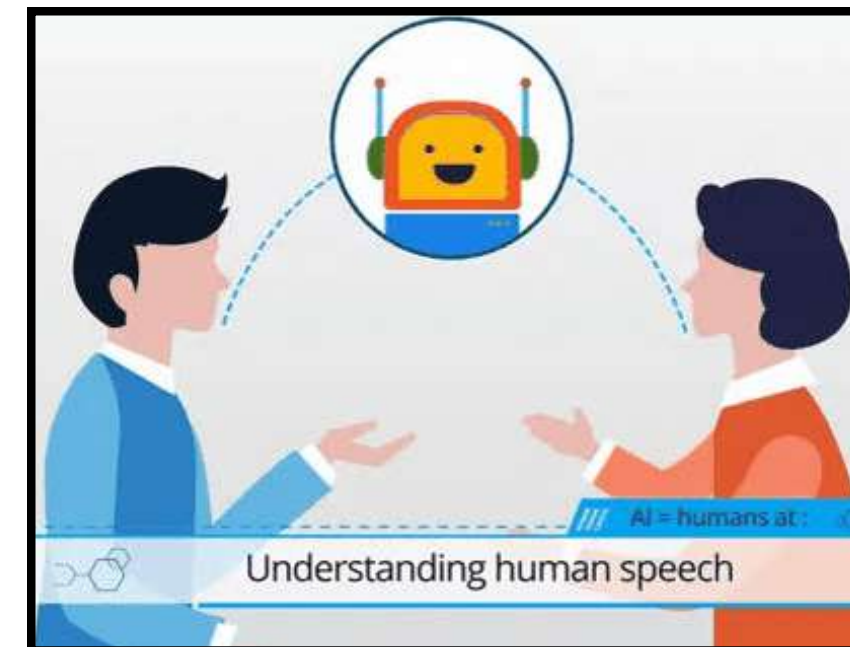
Visual perception



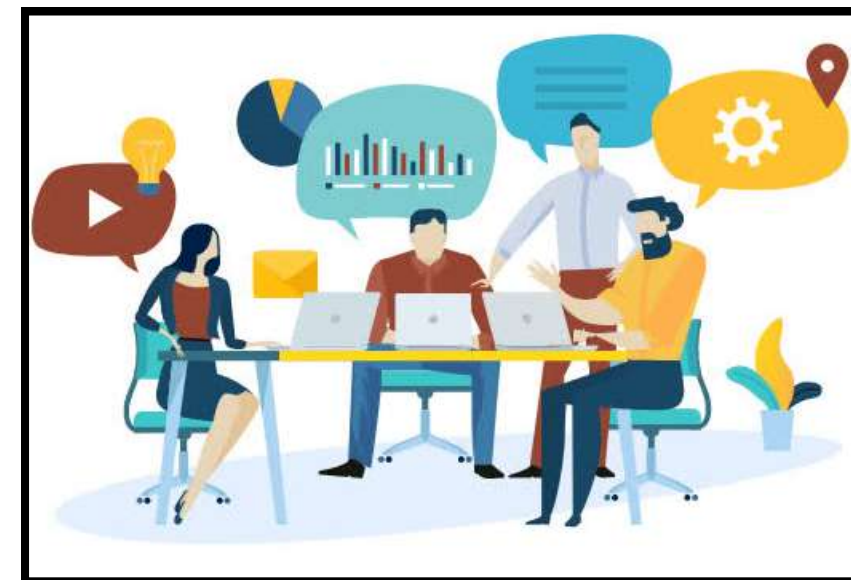
Language



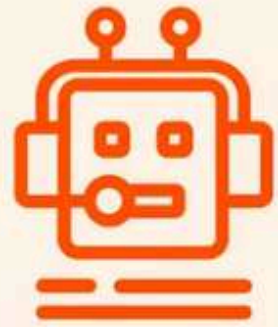
Speech



Decision Making



Types of AI



Artificial narrow intelligence (ANI)

Designed to perform specific tasks



Artificial general intelligence (AGI)

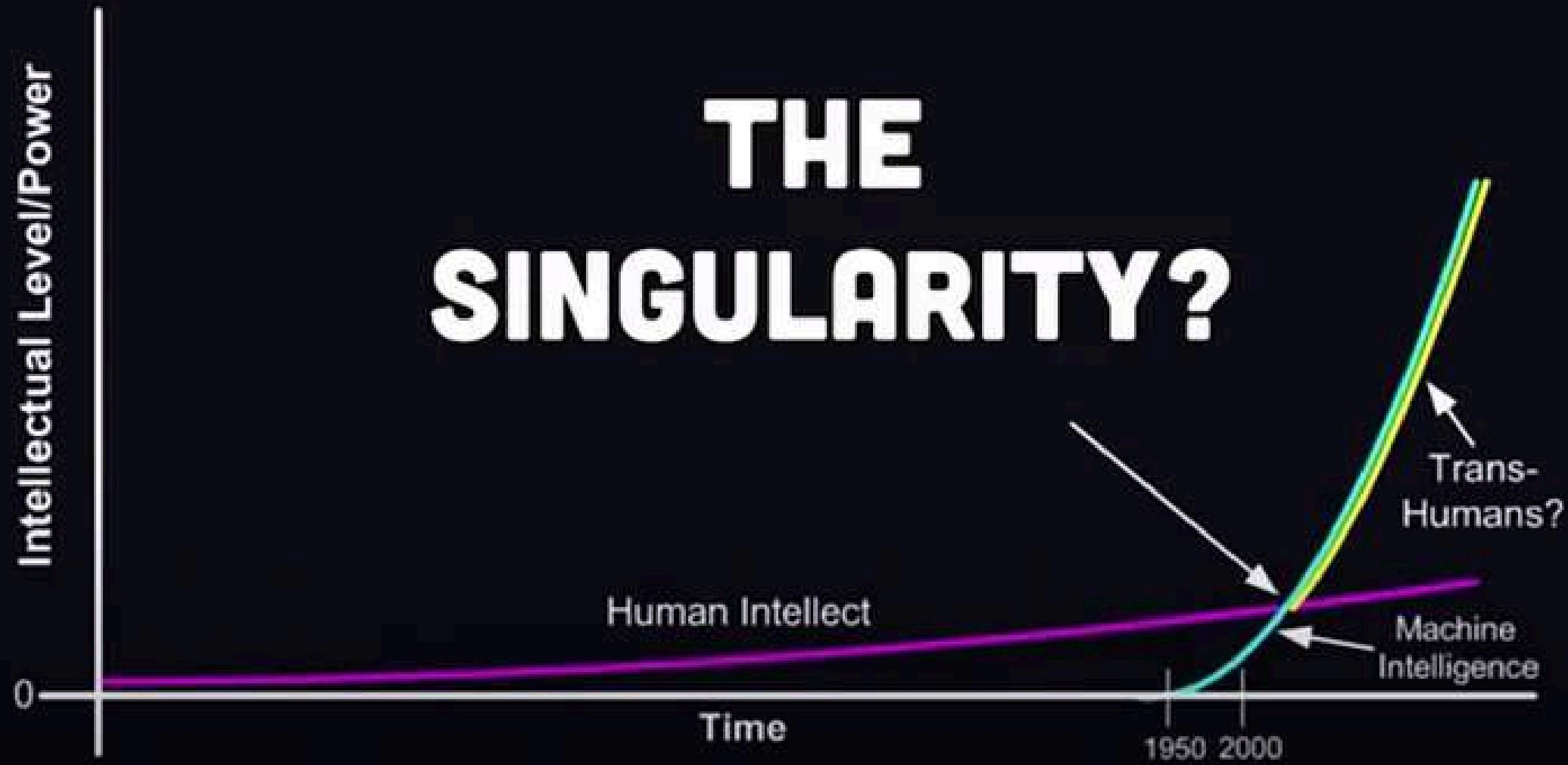
Can behave in a human-like way across all tasks



Artificial super intelligence (ASI)

Smarter than humans—the stuff of sci-fi

THE SINGULARITY?



<https://fortune.com/2024/09/24/sam-altman-ai-superintelligence/>



SEARCH

TECH · A.I.

Sam Altman says AI superintelligence could be just 'a few thousand days' away

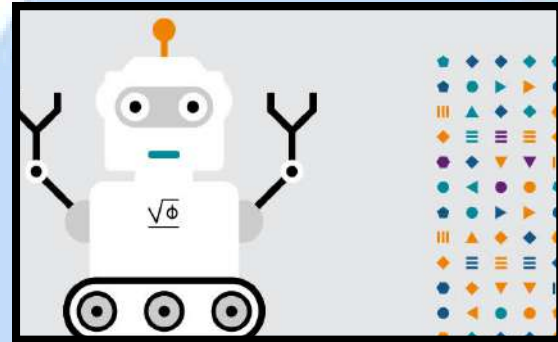
BY **CHRIS MORRIS**

September 24, 2024 at 9:16 PM GMT+5:30



The AI Landscape

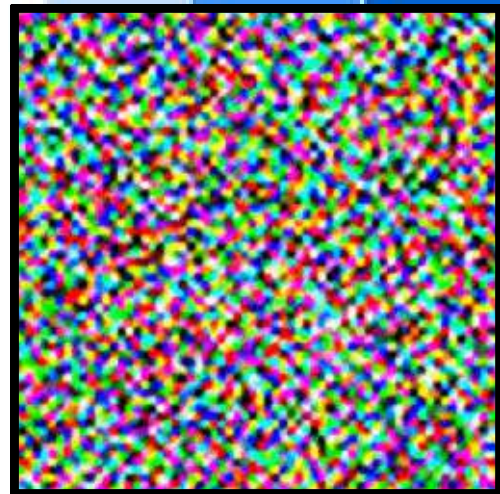
Artificial
Intelligence



Machine
Learning



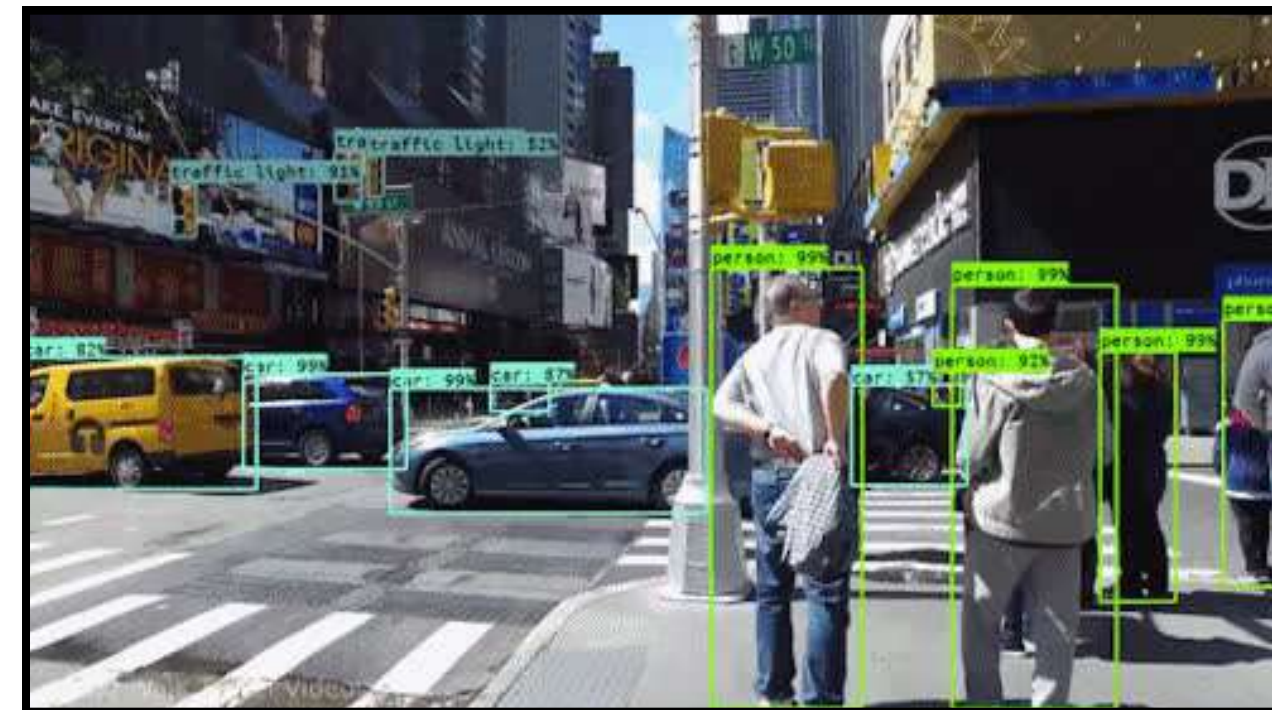
Deep
Learning



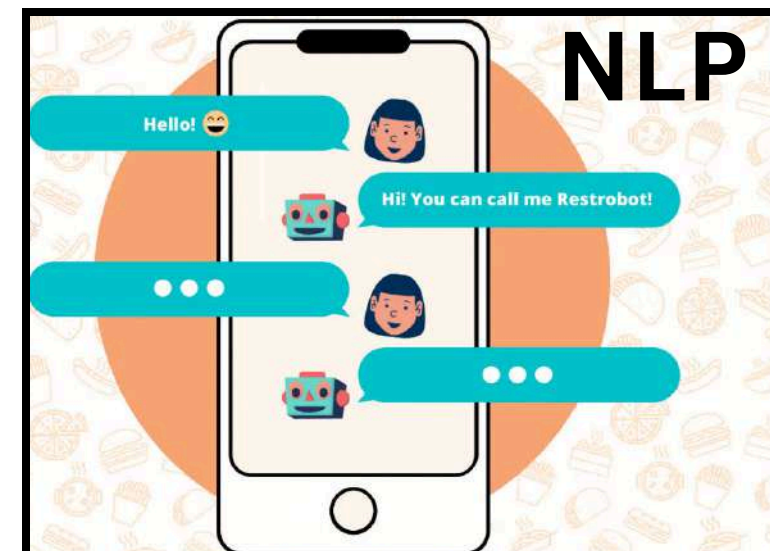
Generative
AI



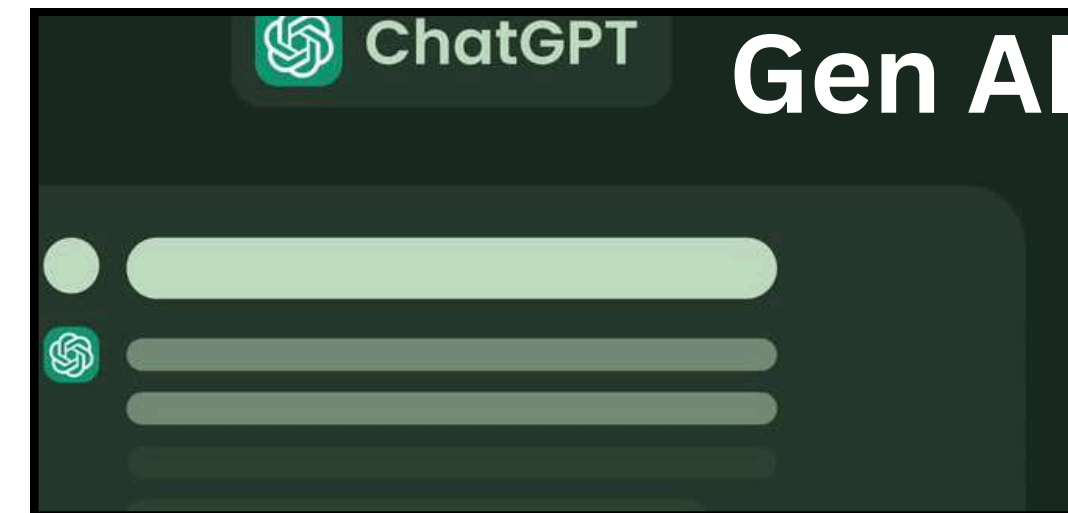
Robotics



**Computer
Vision**



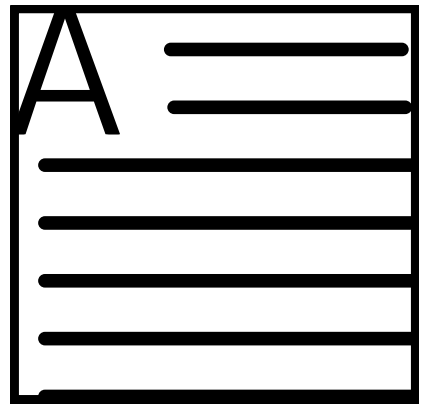
NLP



Gen AI

Generative AI

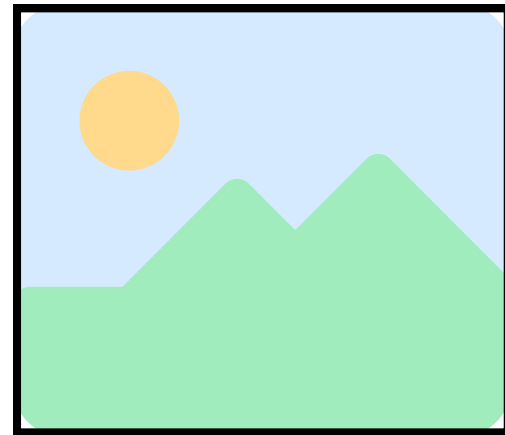
Generative AI



Text



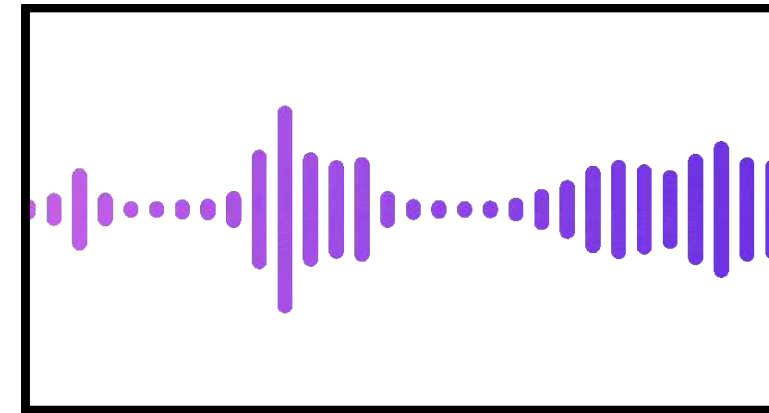
Code



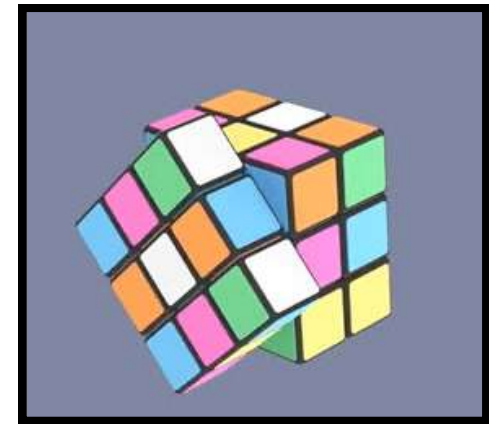
Image



Video



Audio



3D

What is Model?

Input

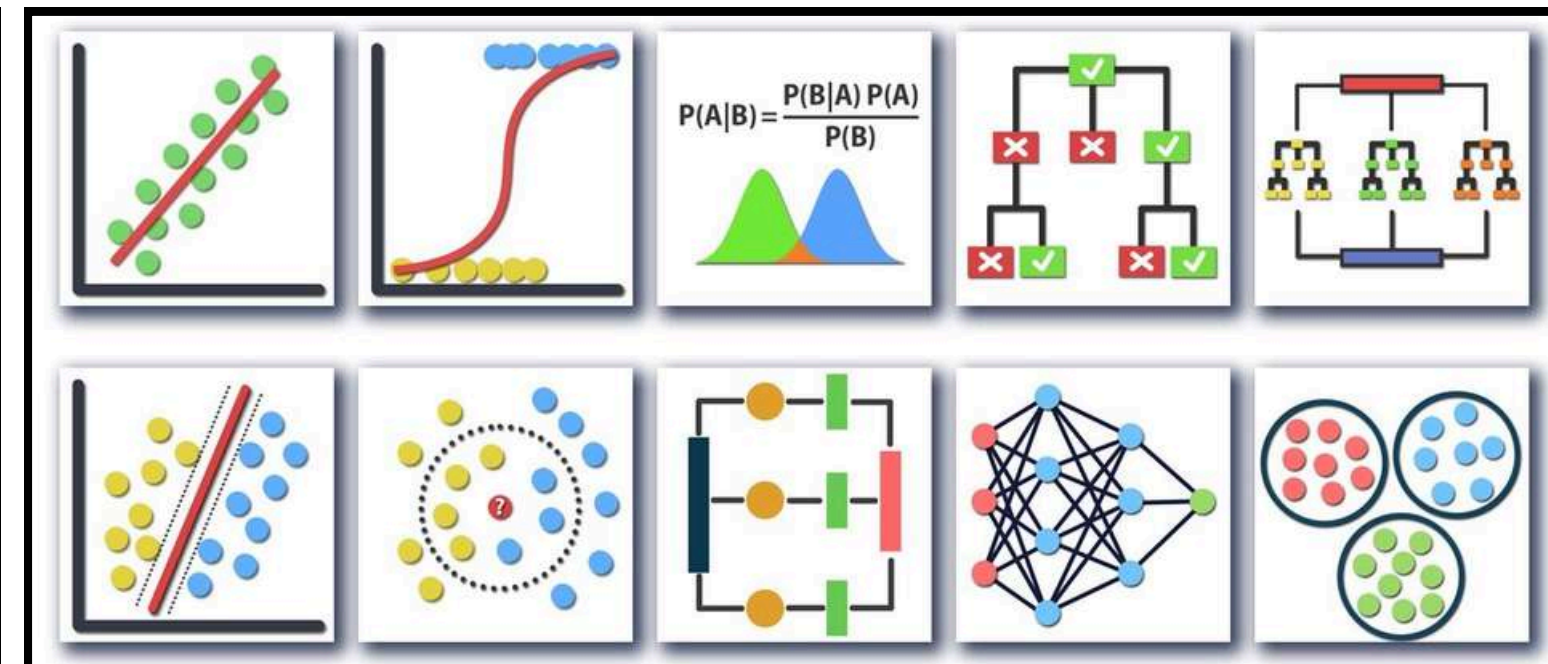
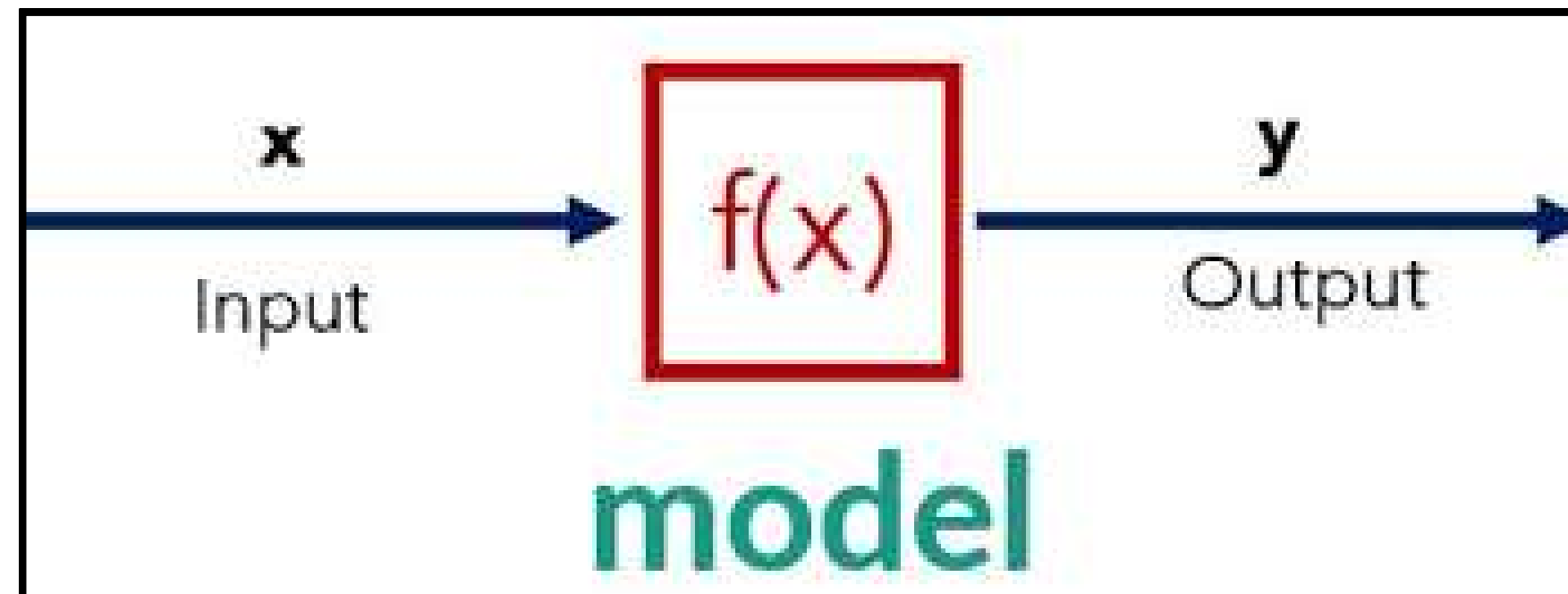


Model



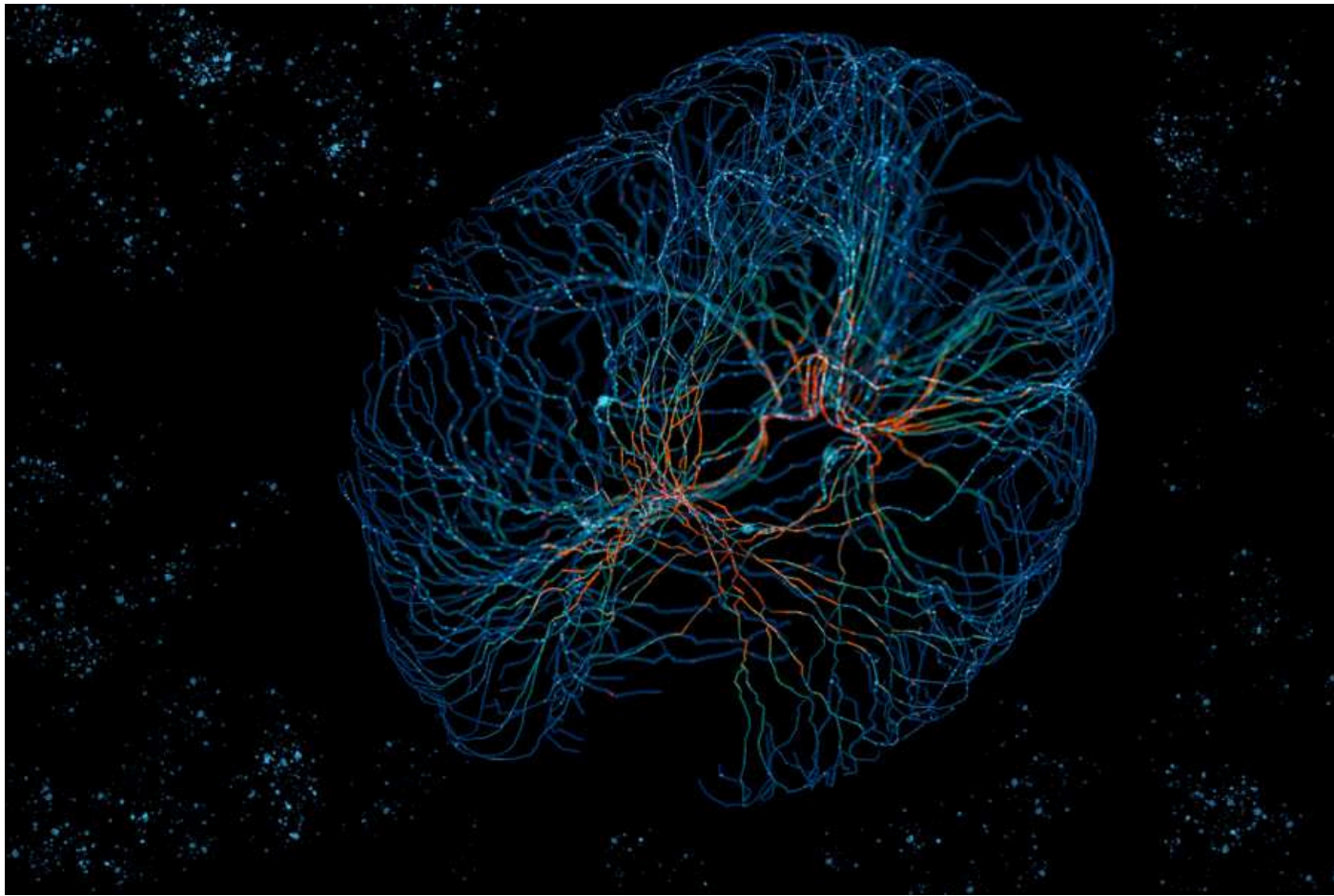
coffee mug

3Blue1Brown

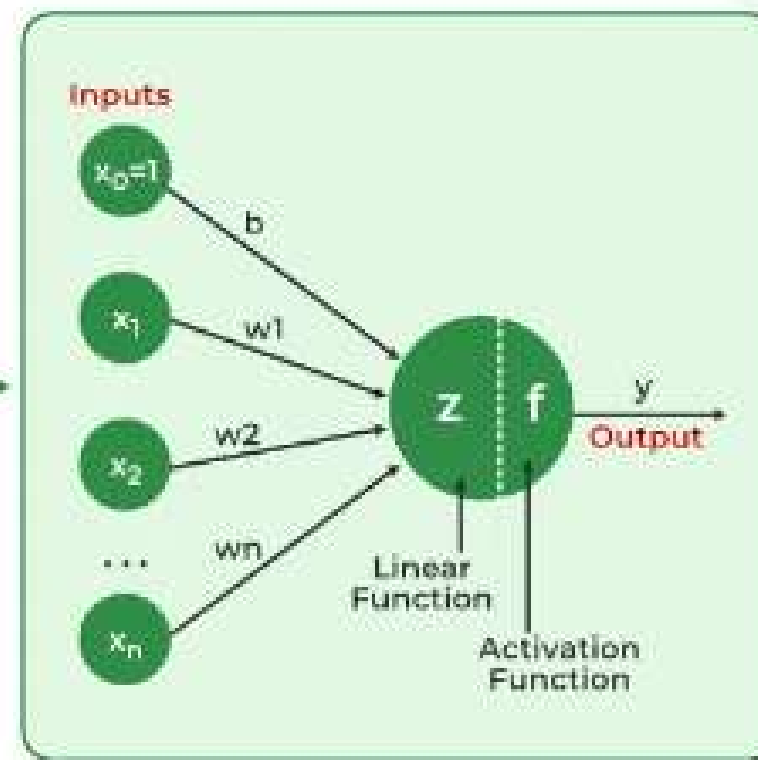
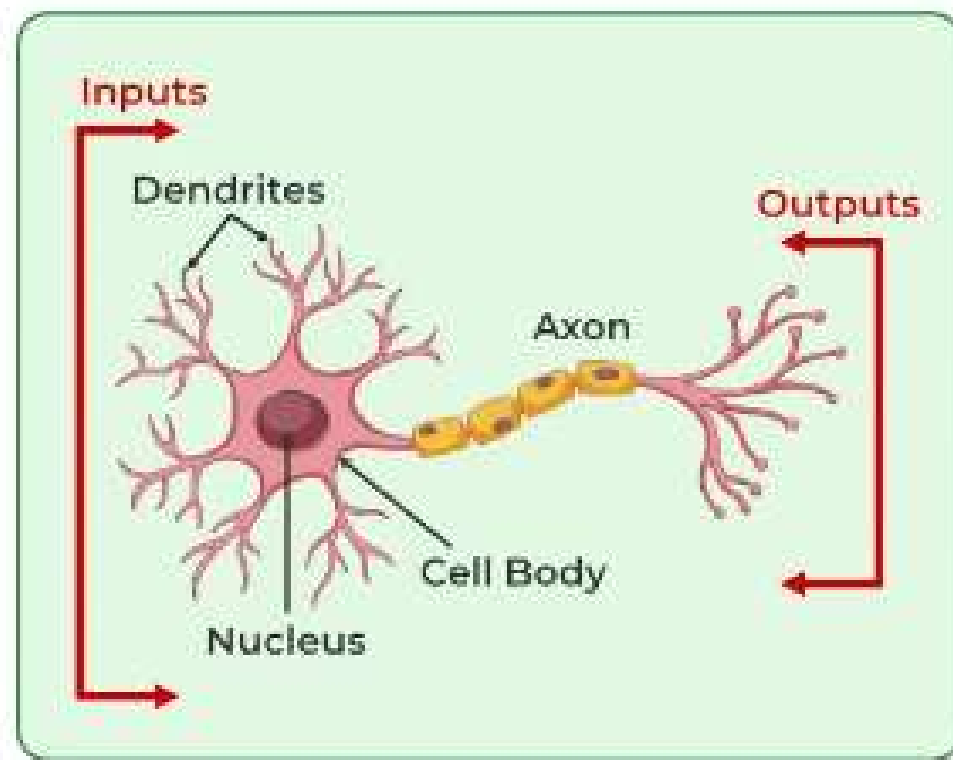
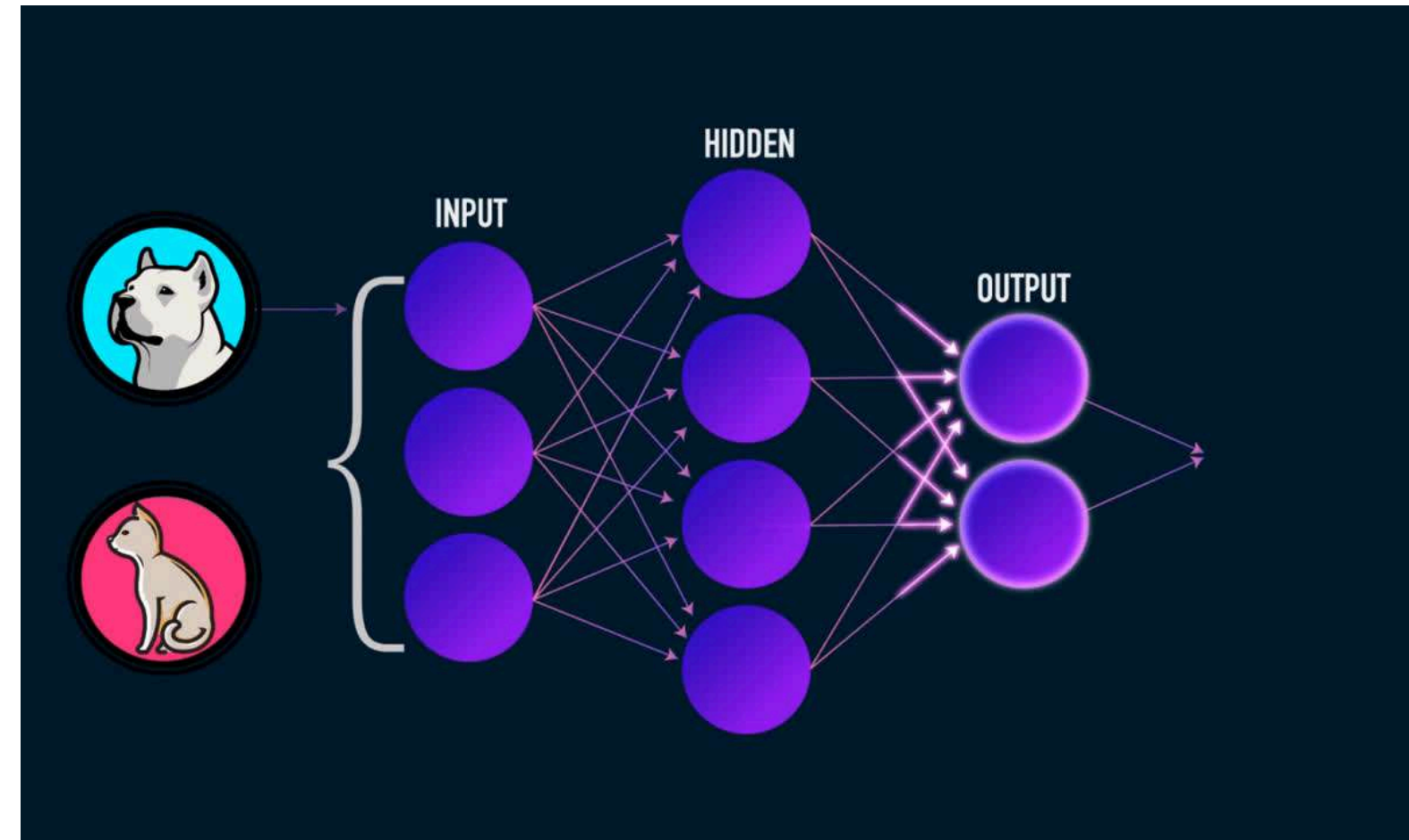


Deep Learning Models

Biological Neural Network

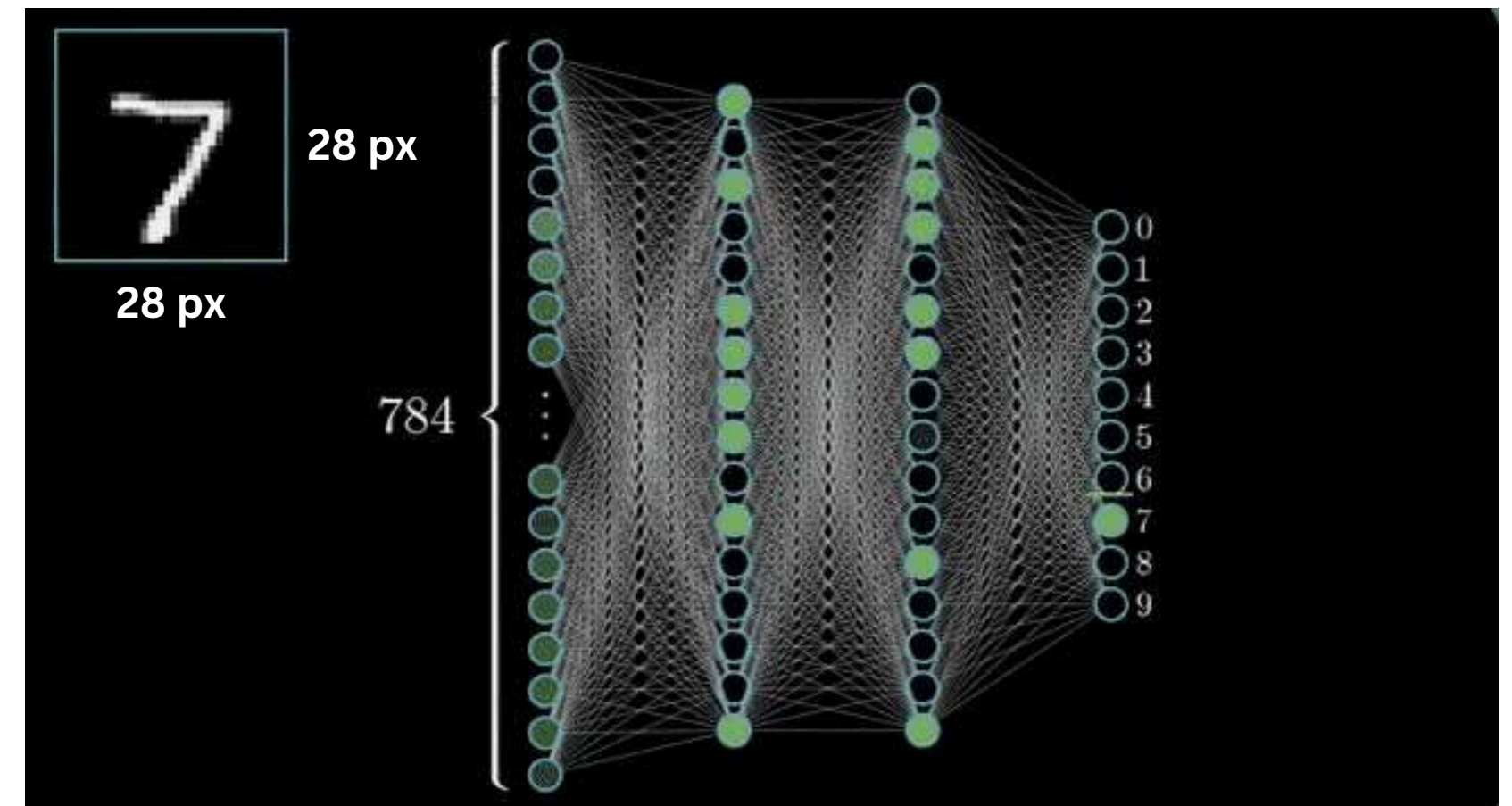


Artificial Neural Network



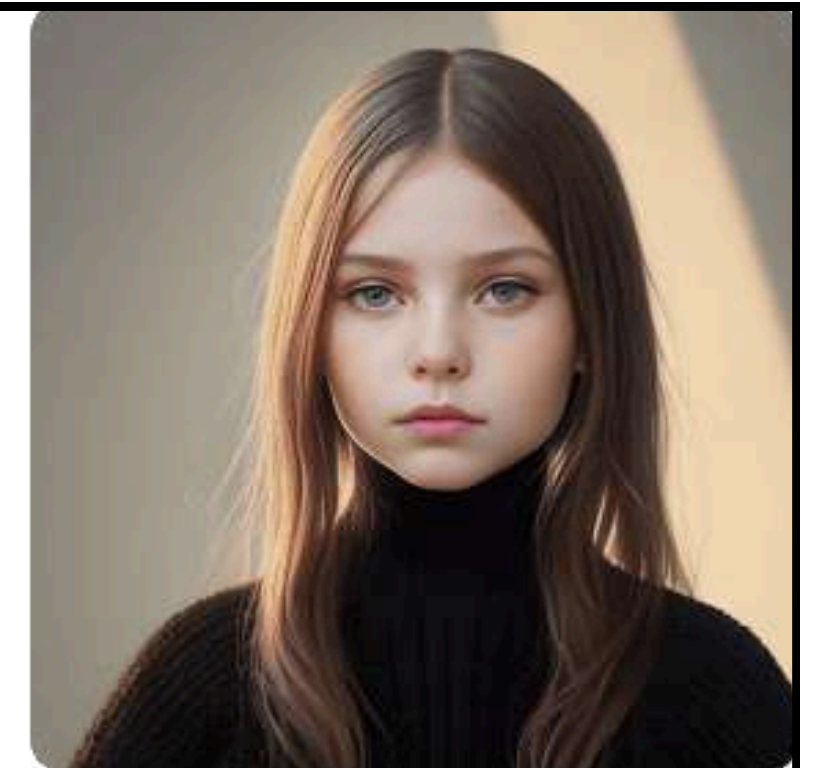
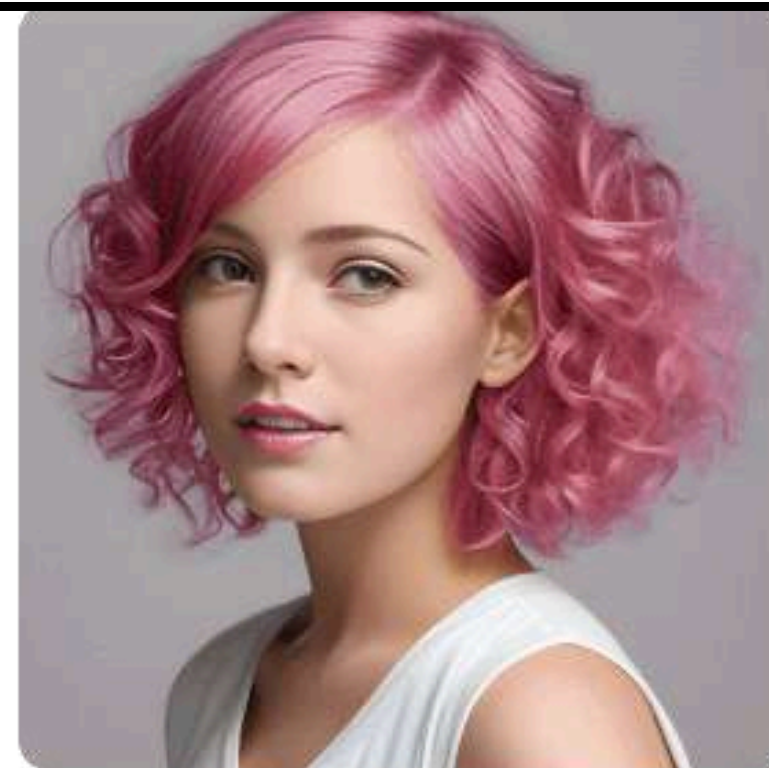
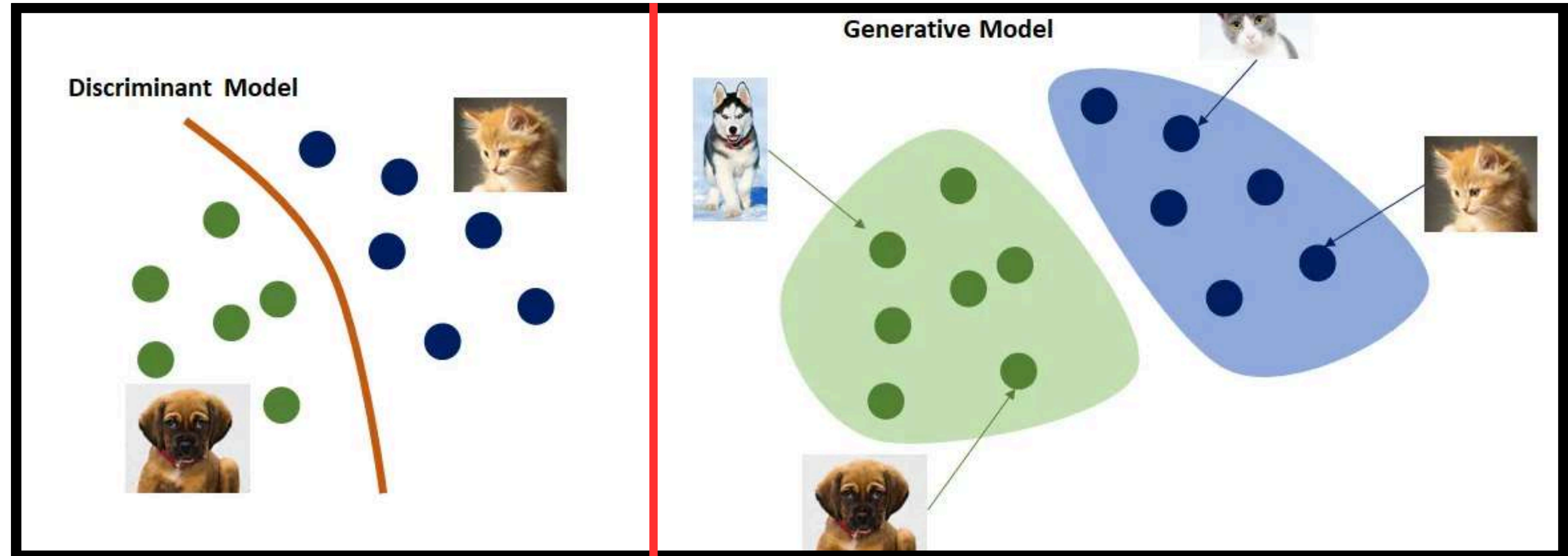
Perceptron

Parameters: Weights, Biases

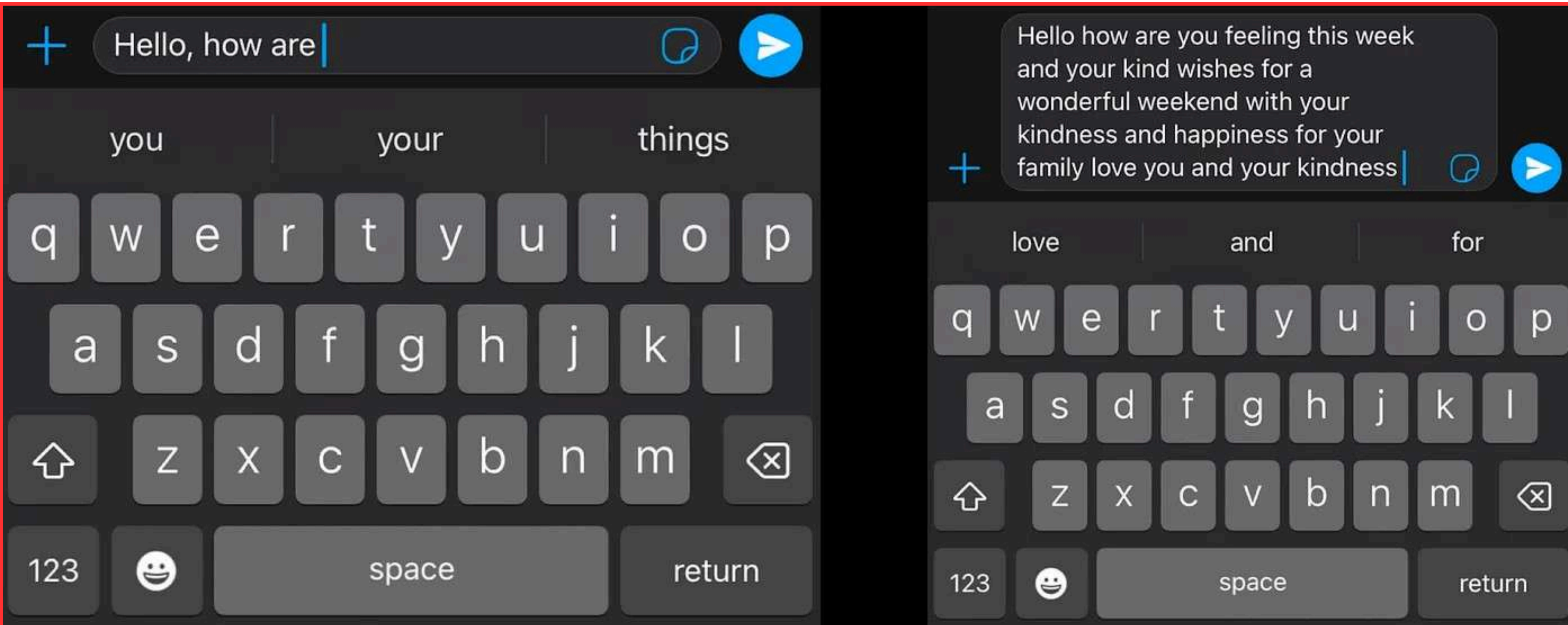


Deep Learning

Deep / Machine Learning Models



Next Word Prediction



Next Word Prediction

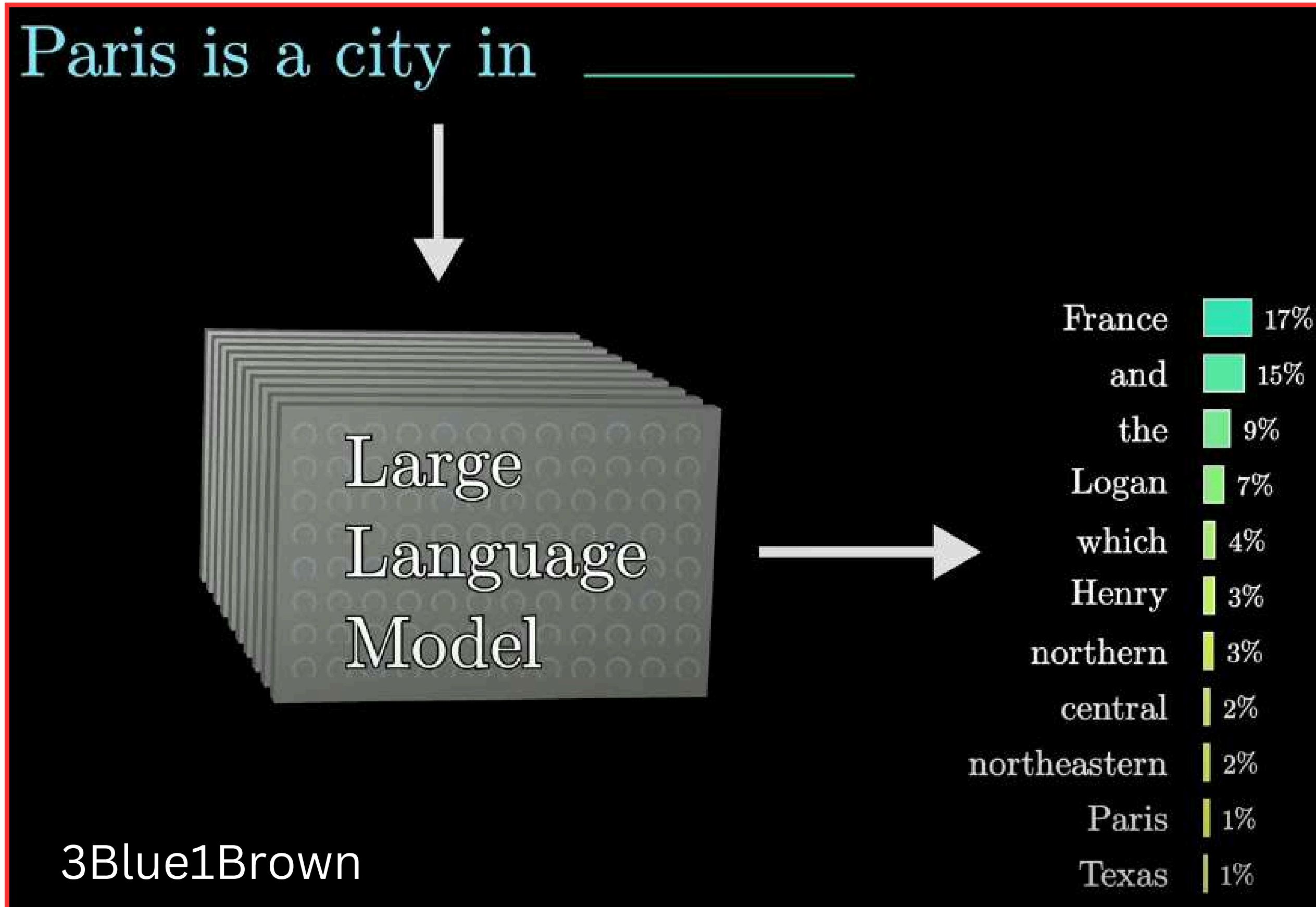
decode

Decoder

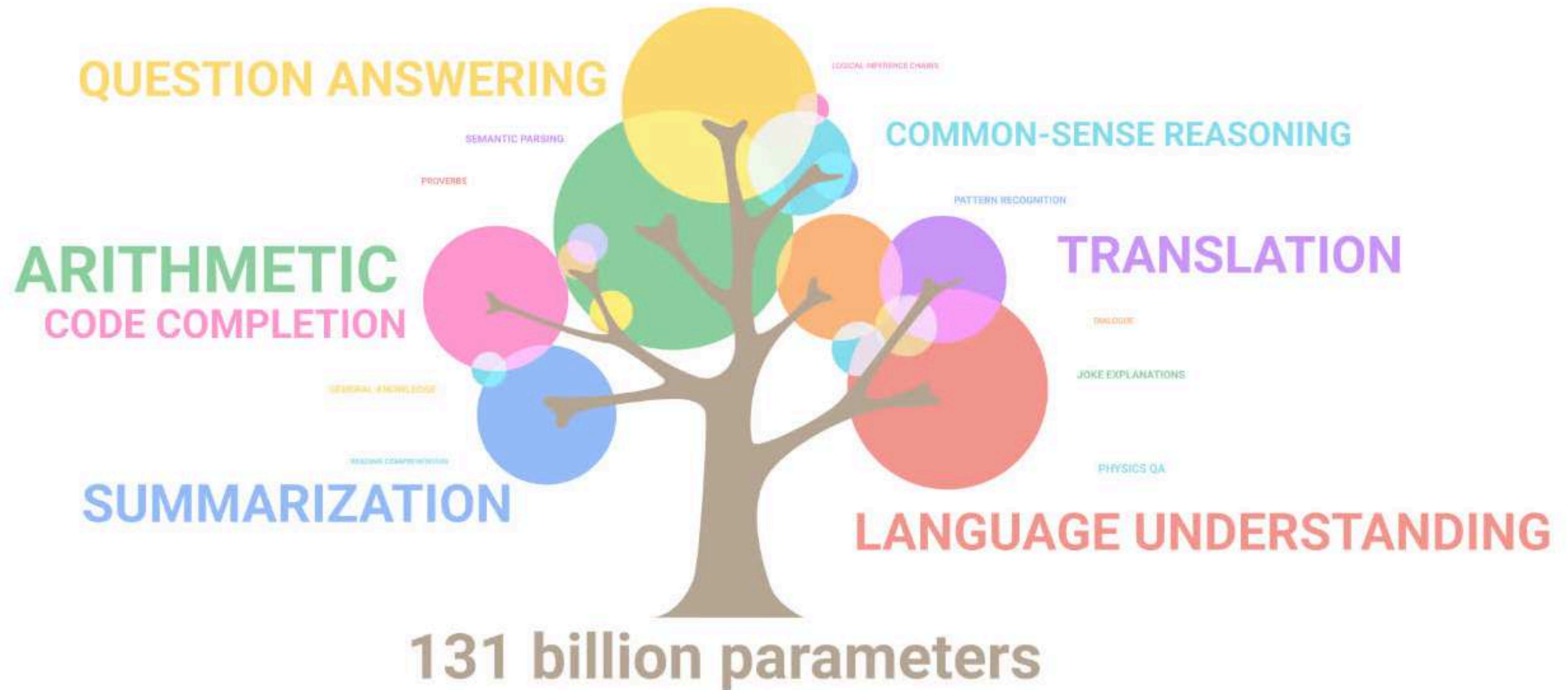
LLMs

decode

Large Language Models



Large Language Models



Open Source



∞ Meta
LLama 4



TII Introduces
World's Most Powerful Open LLM:

FALCON 180B



**MISTRAL
AI_**



a BigScience initiative

BLOOM

176B params · 59 languages · Open-access

Closed Source



GPT-4.1

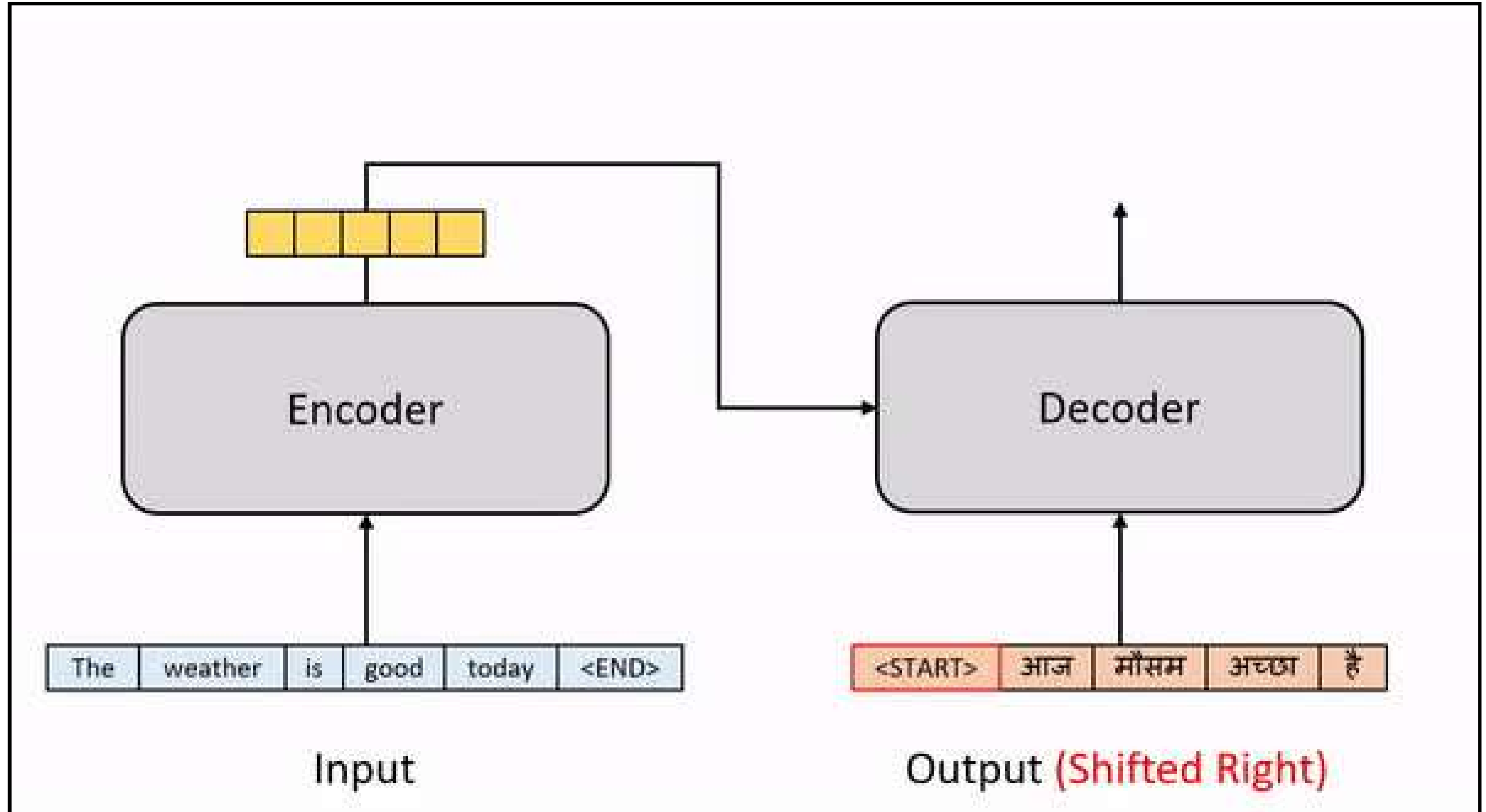


Gemini 2.0




Qwen2.5

Generative Pre-trained Model



Tokenization

← ↻ 🔒 <https://platform.openai.com/tokenizer>

 OpenAI Platform

GPT-4o & GPT-4o mini GPT-3.5 & GPT-4 GPT-3 (Legacy)

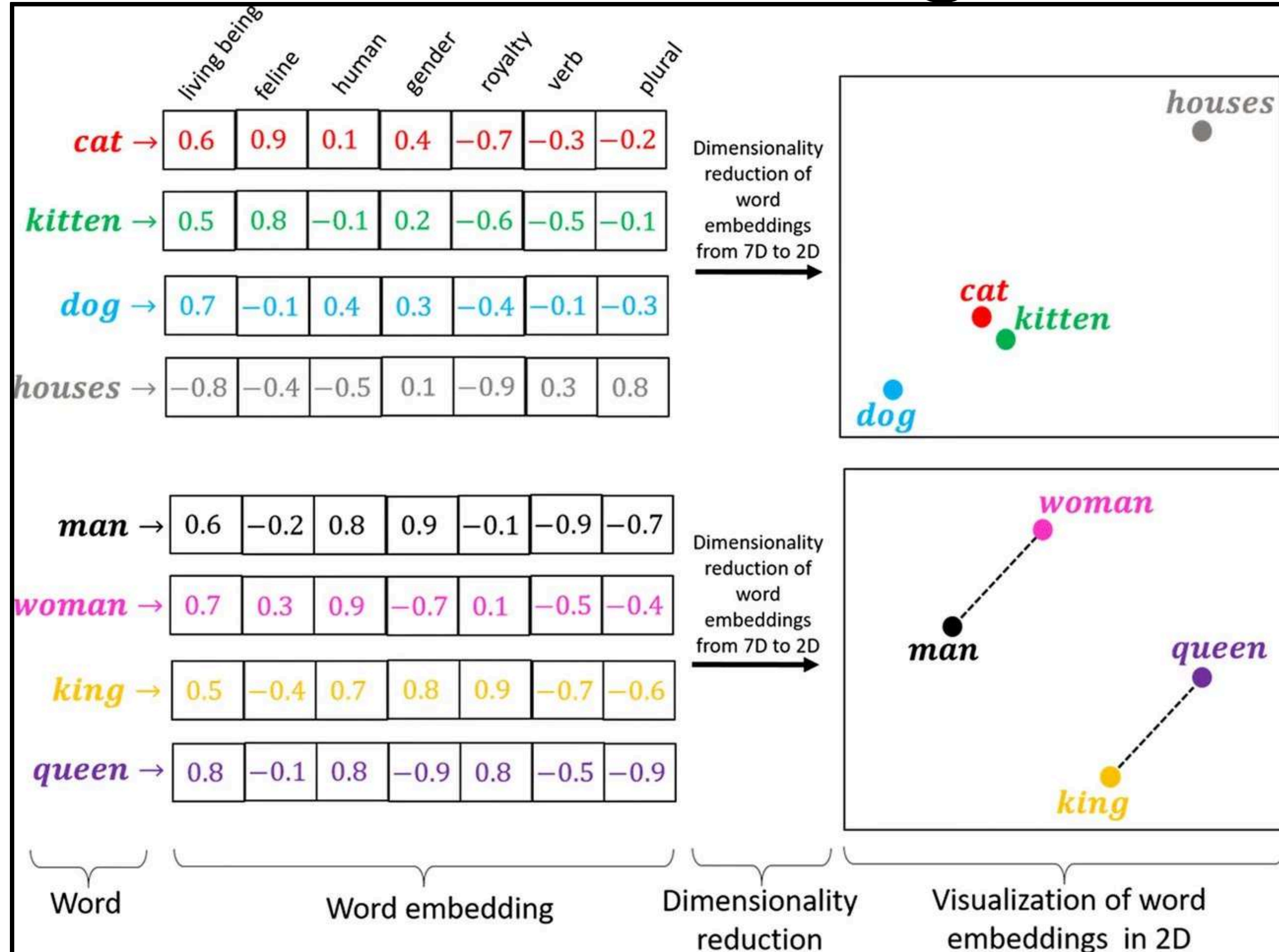
How are you?

Clear Show example

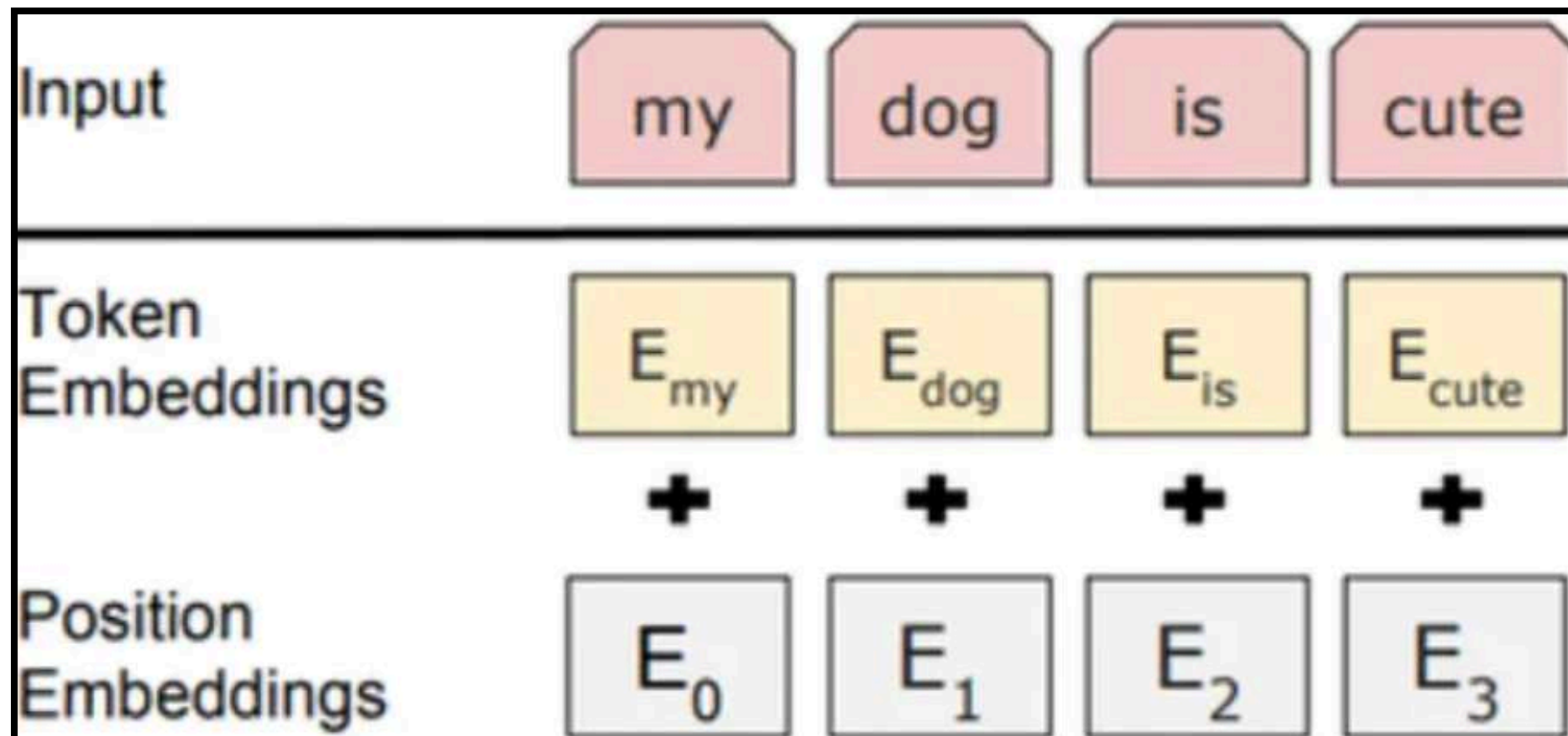
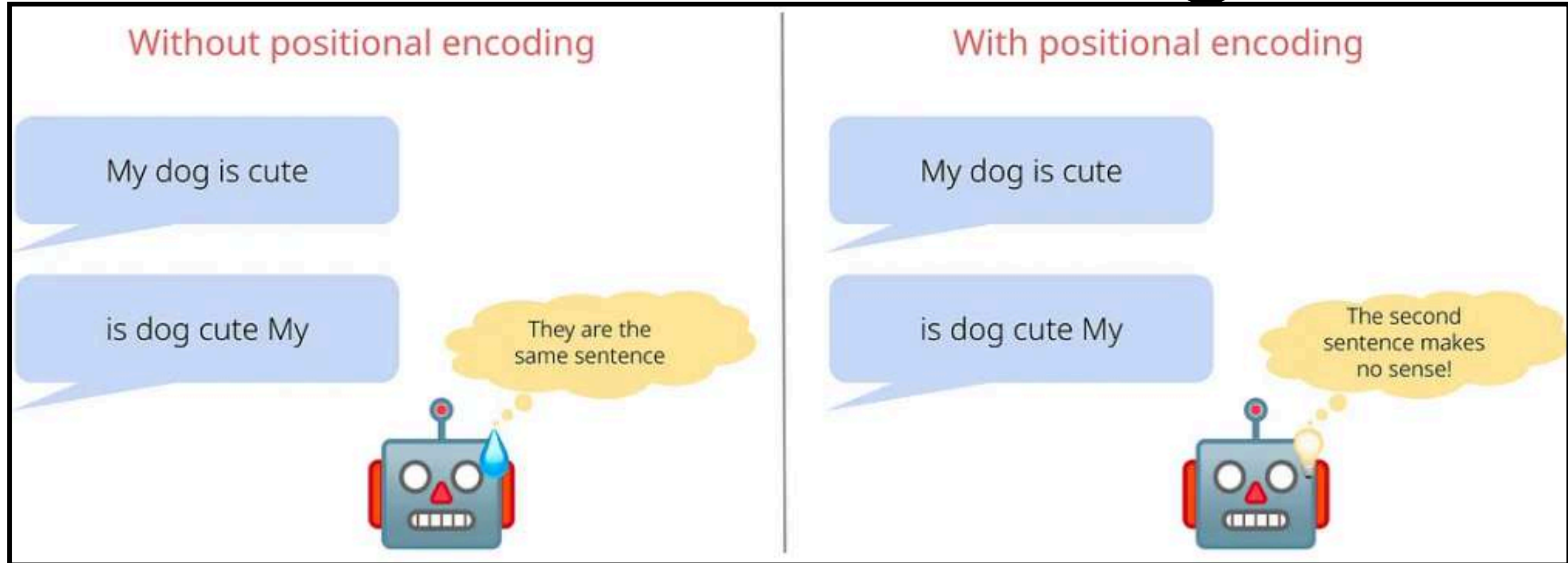
Tokens	Characters
4	12

How are you?

Word Embedding

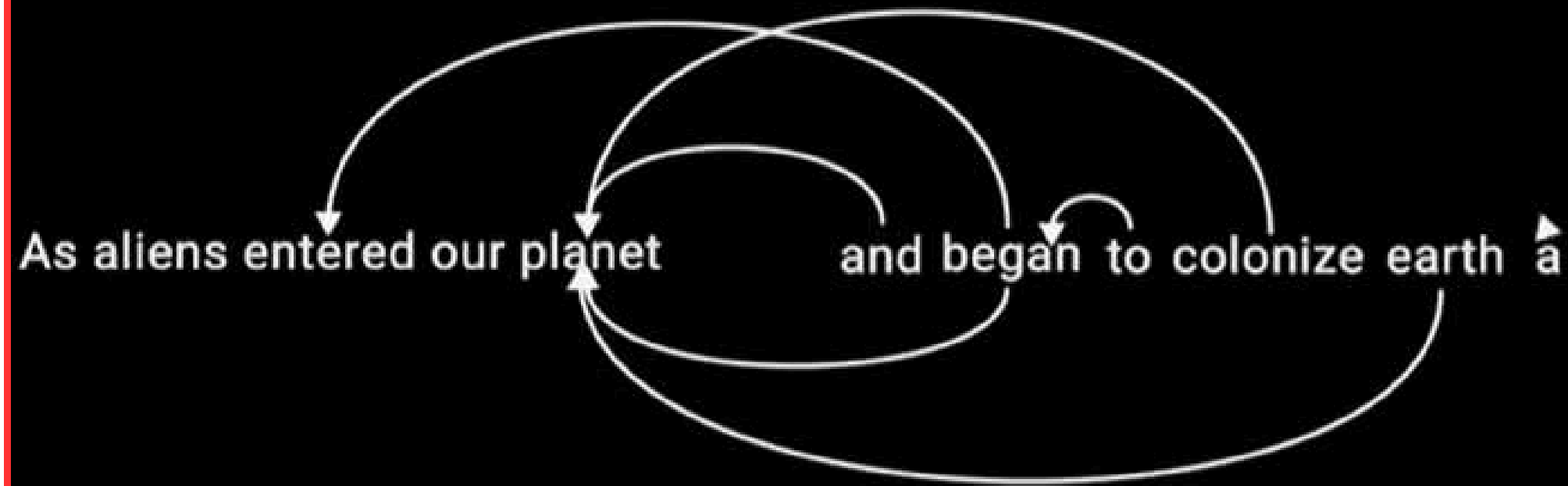


Positional Encoding



The dog chased cat
The cat chased dog.

Attention Mechanism



Attention Is All You Need

Ashish Vaswani*
Google Brain
avaswani@google.com

Noam Shazeer*
Google Brain
noam@google.com

Niki Parmar*
Google Research
nikip@google.com

Jakob Uszkoreit*
Google Research
usz@google.com

Llion Jones*
Google Research
llion@google.com

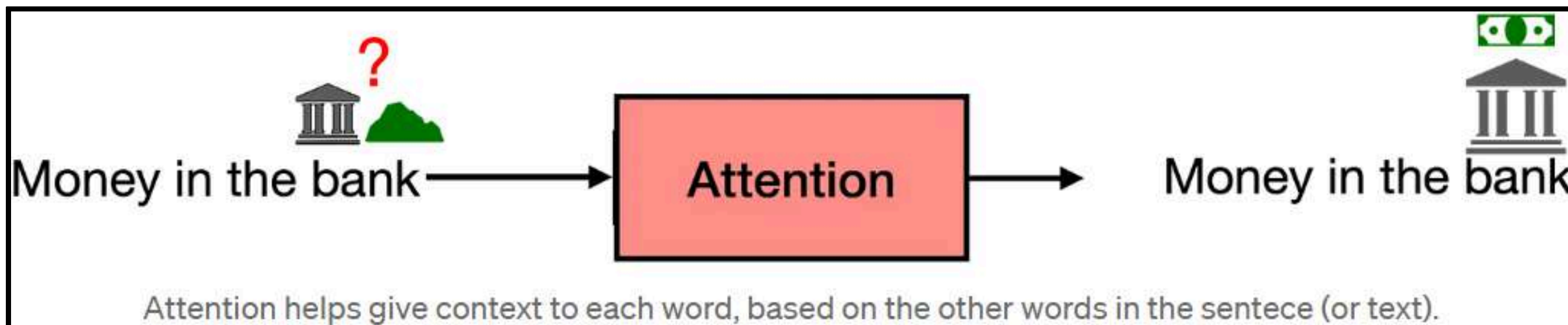
Aidan N. Gomez* †
University of Toronto
aidan@cs.toronto.edu

Lukasz Kaiser*
Google Brain
lukaszkaizer@google.com

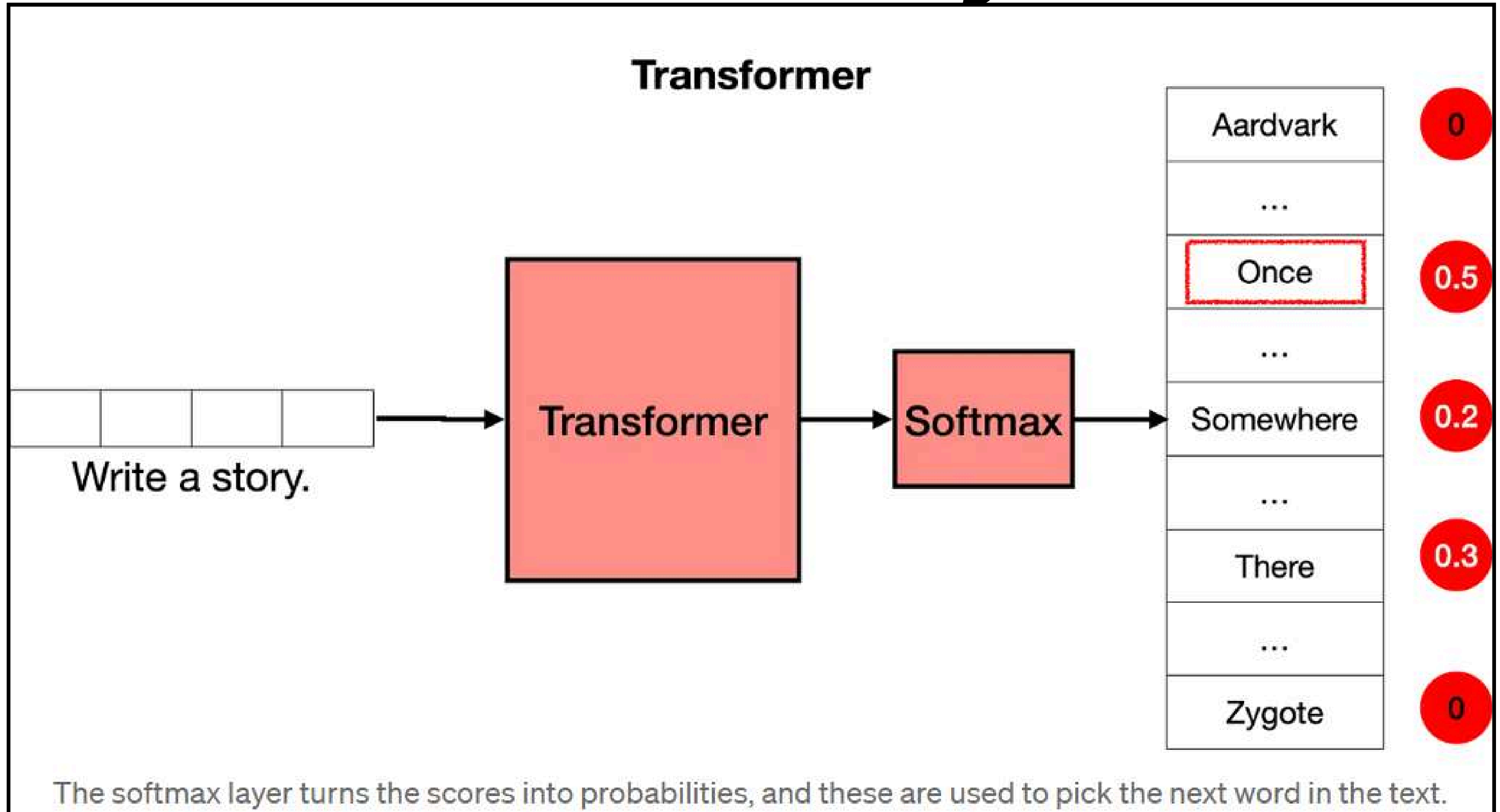
Illia Polosukhin* ‡
illia.polosukhin@gmail.com

Abstract

The dominant sequence transduction models are based on complex recurrent or convolutional neural networks that include an encoder and a decoder. The best performing models also connect the encoder and decoder through an attention mechanism. We propose a new simple network architecture, the Transformer, based solely on attention mechanisms, dispensing with recurrence and convolutions entirely. Experiments on two machine translation tasks show these models to be superior in quality while being more parallelizable and requiring significantly less time to train. Our model achieves 28.4 BLEU on the WMT 2014 English-to-German translation task, improving over the existing best results, including ensembles, by over 2 BLEU. On the WMT 2014 English-to-French translation task, our model establishes a new single-model state-of-the-art BLEU score of 41.8 after training for 3.5 days on eight GPUs, a small fraction of the training costs of the best models from the literature. We show that the Transformer generalizes well to other tasks by applying it successfully to English constituency parsing both with large and limited training data.



Softmax Layer



Gen AI Models / Tools

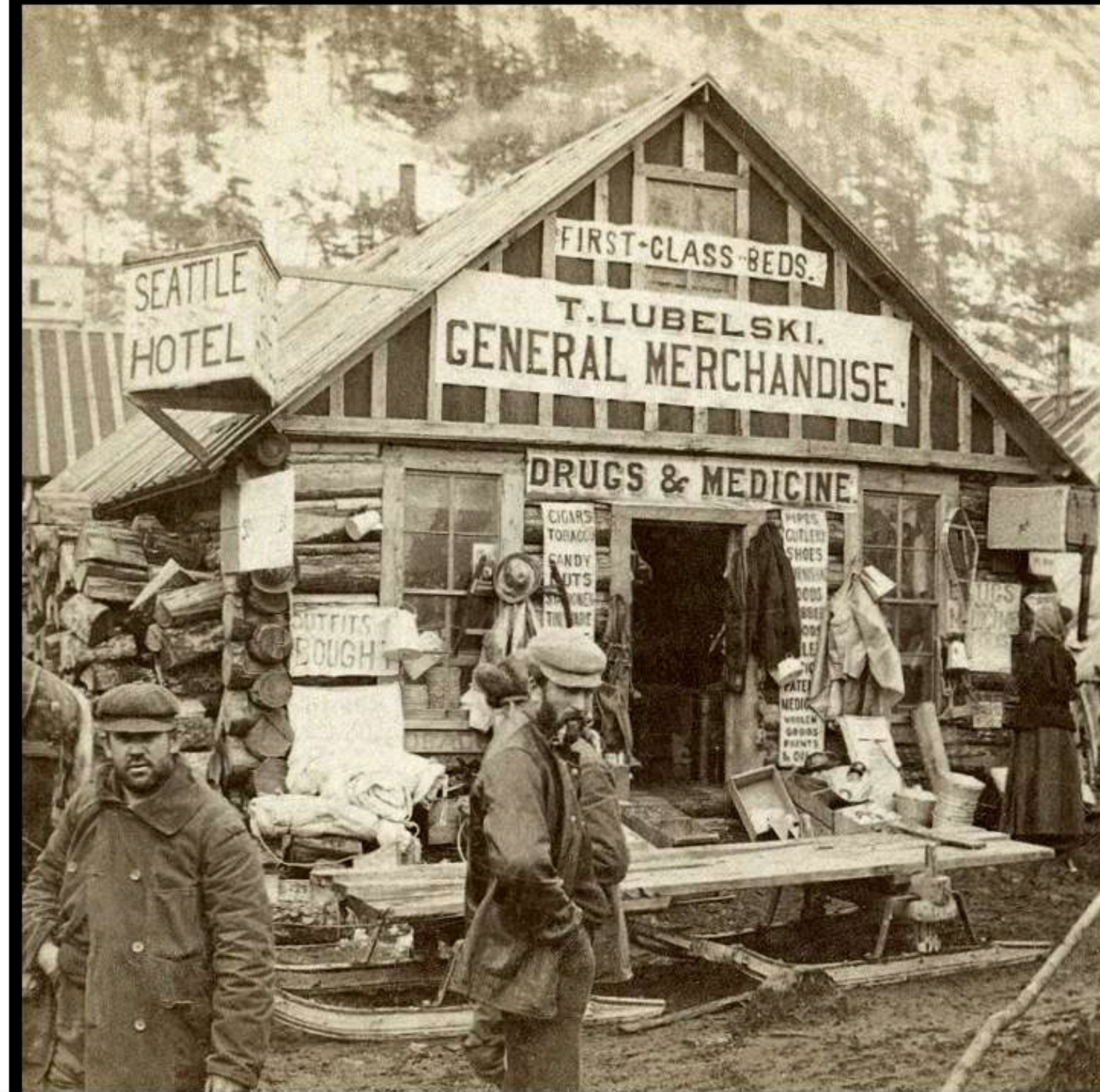
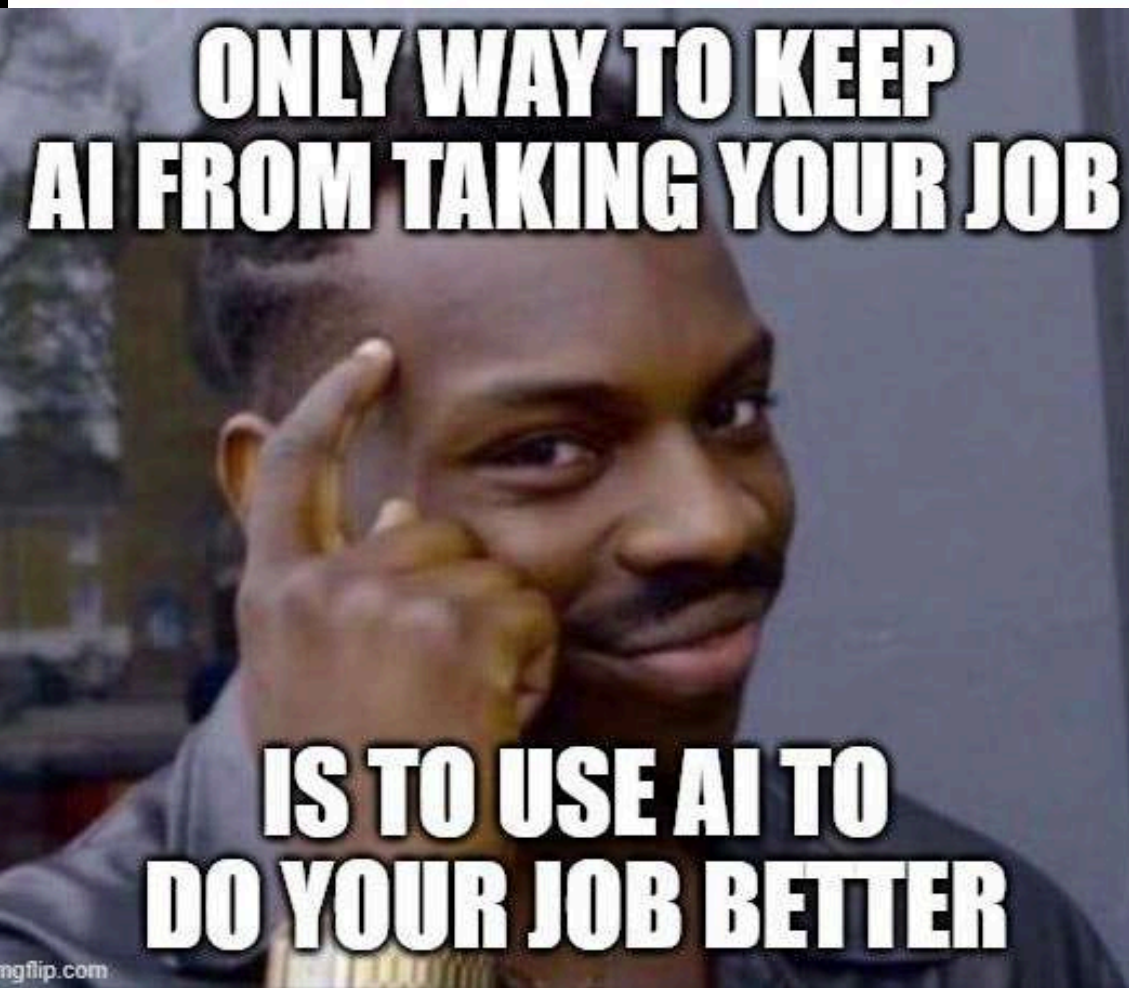
Hype Or Reality: Will AI Really Take Over Your Job?

Bernard Marr Contributor

Follow

May 15, 2024, 01:31am EDT

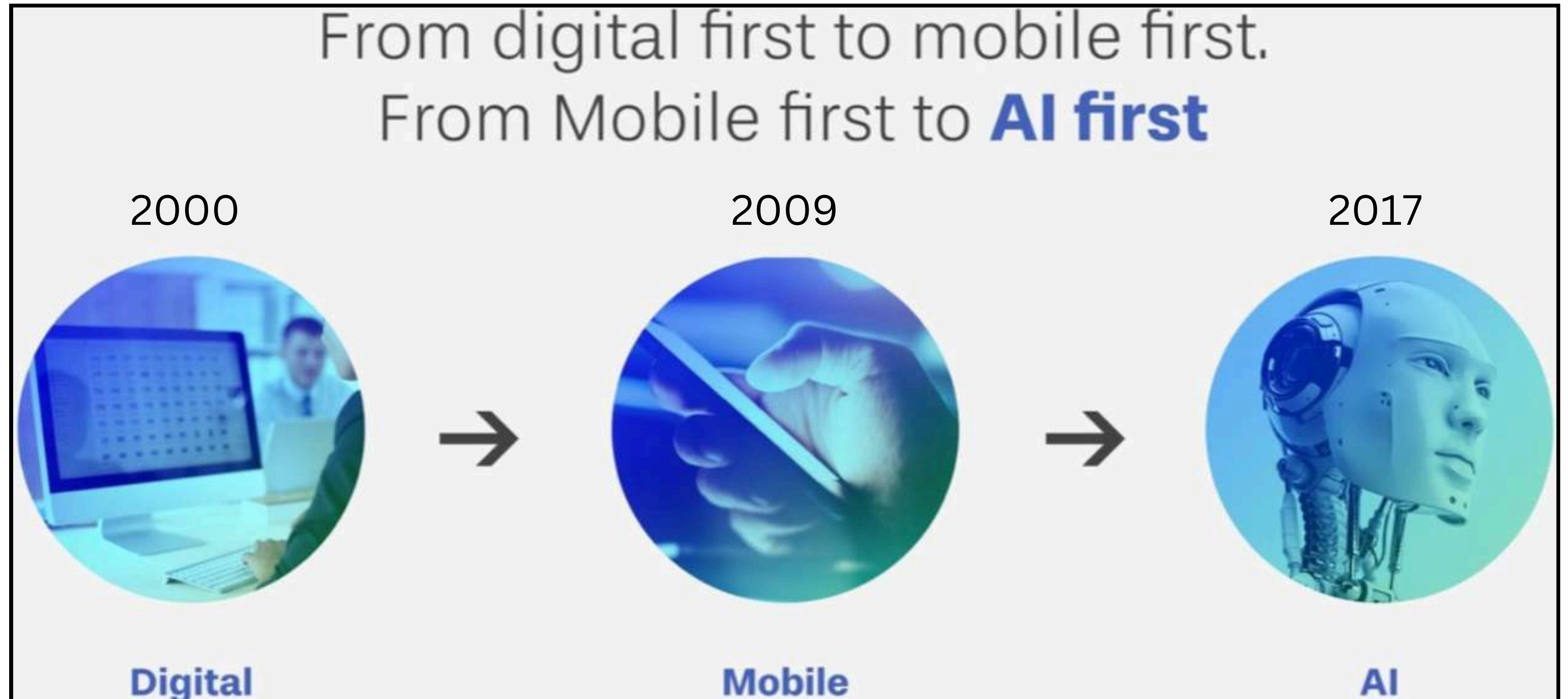
Every technological disruption is a gateway to new possibilities; it challenges us to innovate, adapt, and seize the opportunities it creates.



Infosys AI Initiative

AI First Mindset

The key idea is that computers should adapt how people live their lives rather than people having to adapt to the computers.



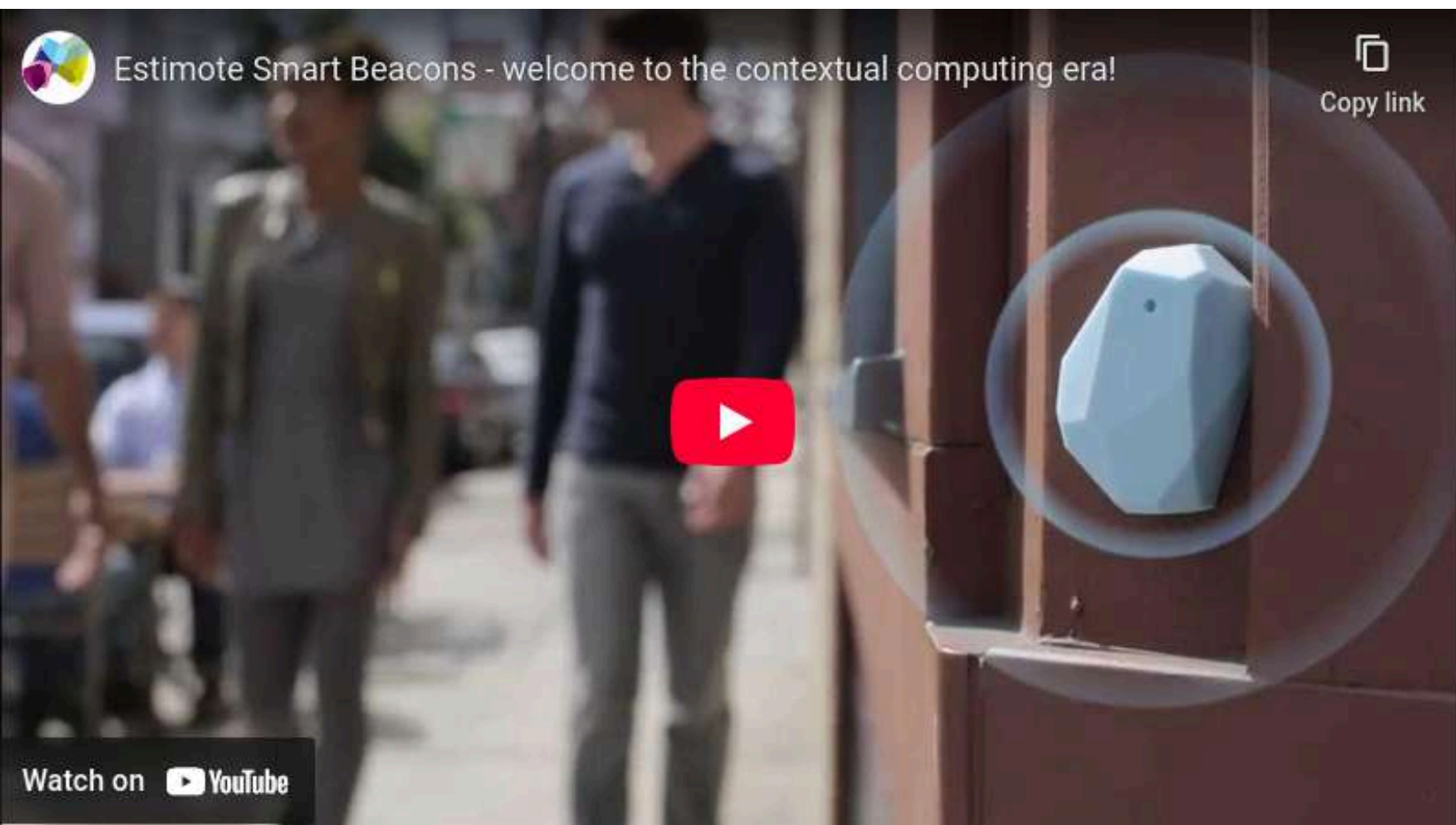


AI First Mindset

Ability to interact with computing in a natural and seamless way



Ambient, multi-device presence of computing



Thoughtful contextual computing

Infosys Initiatives

Infosys AI-First Initiative : To apply Generative AI concepts for our inhouse work/Projects.

AI Cloud

Issues with hosted models:

- Security : Clients do not want to expose their data on the internet .
- The data may be reused for training.
- Cost of accessing / finetuning

GPU enabled Infra available for working with Large language models

AI Cloud Access

Topaz

- AI-First Initiative
- Set of business use-cases , APIs that can be used for client projects.
- Our experience and artifacts that can be leveraged to accelerate client Projects.

Portal to consolidate the Knowledge and experience and co-ordination with teams for re-use of artifacts across projects.



An AI-first offering to accelerate business value
for global enterprises, including generative AI

What is Infosys Topaz?

Infosys Topaz is an AI-first set of services, solutions and platforms using generative AI technologies. It helps amplify the potential of humans, enterprises and communities to create value from unprecedented innovations, pervasive efficiencies and connected ecosystems. It brings the advantage of 12,000+ AI assets, 150+ pre-trained AI models, 10+ AI platforms steered by AI-first specialists and data strategists, and a 'responsible by design' approach that is uncompromising on ethics, trust, privacy, security and regulatory compliance. Leveraging Infosys applied AI framework to build an AI-first core that empowers people to deliver cognitive solutions, Infosys Topaz help enterprises: accelerate growth, build connected ecosystems & unlock efficiencies at scale.

 The Economic Times

Infosys launches small language models built on Nvidia AI stack

Infosys on Thursday launched its small language models (SLMs) built using the NVIDIA AI Stack. The two SLMs are - Infosys Topaz BankingSLM...



[Channel Page](#)

RESPONSIBLE AI

Balancing Innovation and Ethics

AI3S Framework

1. Scan
2. Shield
3. Steer



Bias | Transparency | Fairness | Privacy | Accountability

Generative AI Channel



[Generative AI Channel on Lex](#)

Thank You

amol.kharat@infosys.com