



Artificial Intelligence (AI)

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Artificial Intelligence (AI)

AI is the simulation of human intelligence in machines programmed to think and learn like humans, capable of problem-solving, reasoning, and adapting to new information.

AI Timeline - Major Milestones

- 1950s** Turing Test Proposed; First AI Programs Developed
- 1956** Dartmouth Conference Coins "Artificial Intelligence"
- 1960s** Eliza Chatbot Created; Early Neural Networks Emerge
- 1996** Deep Blue - a Chess-Playing Program
- 2012** Deep Learning Breakthrough in Image Recognition
- 2014** Generative Adversarial Networks (GANs) Introduced
- 2020** GPT-3 Demonstrates Advanced Language Generation
- 2022** Chatgpt Launches, Bringing Conversational AI to Masses
- 2023** Generative AI Boom; Major Tech Companies Release AI Models



Applications of AI

- 👉 **Healthcare:** Personalised medicine
- 👉 **Finance:** Algorithmic trading
- 👉 **Transportation:** Autonomous vehicles
- 👉 **Marketing & Customer Service:** Targeted advertising, chatbots
- 👉 **Education:** Adaptive learning systems, personalised tutoring
- 👉 **Agriculture:** Crop monitoring
- 👉 **Cybersecurity:** Threat detection
- 👉 **Energy:** Smart grid management, consumption forecasting

Concerns

- 👉 Deepfakes & misinformation
- 👉 Algorithmic bias
- 👉 Automation & job displacement
- 👉 Privacy issues
- 👉 Data ownership & liability issue
- 👉 Ethical decision-making complexes

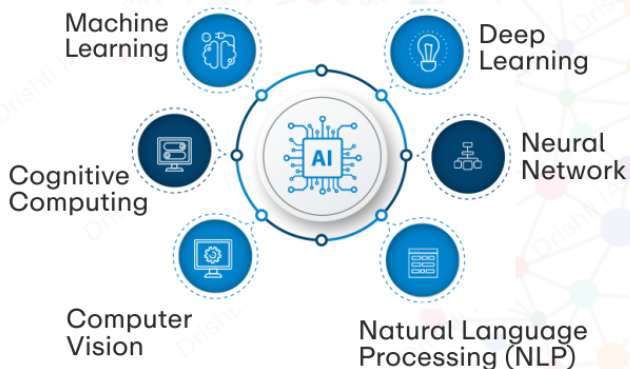
Regulating AI

- 👉 **Global Partnership on AI (GPAI)** launched in 2020
- 👉 **Bletchley Declaration (2023):** Enhance Global Collaboration on AI
- 👉 **G20 New Delhi Leaders' Declaration (2023):** Harnessing AI responsibly for good and for all
- 👉 **Hiroshima AI Process (2023)** by G7

India and AI

- 👉 **National Strategy For AI 2018**
- 👉 **AI For All:** Self-learning online program
- 👉 **GPAI Summit 2023** hosted by India
- 👉 **IndiaAI Mission 2024**
- 👉 **US India Artificial Intelligence (USIAI) Initiative:** AI cooperation in critical areas
- 👉 **AIRAWAT (AI Research, Analytics and Knowledge Assimilation Platform):** Supercomputer

KEY COMPONENTS OF AI



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