



# AI in Public Service Delivery

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## Why in News?

India's **first** [Artificial Intelligence \(AI\)](#) powered [Anganwadi](#) was launched in Waddhamna village, Nagpur district, Maharashtra.

- This pilot project is being hailed as a major leap in bridging the **rural-urban digital divide** in early childhood education, marking a significant advancement in **public service delivery**.

## How can AI Aid in Public Service Delivery?

- **Early Child Care:** Maharashtra's AI-enabled Anganwadi integrates with the [Poshan Tracker](#) to monitor children's nutrition and health in real time.
  - Anganwadi workers upload meal photos for **instant dietary analysis**, enabling predictive alerts on **malnutrition risks**.
  - AI integration facilitates targeted delivery of supplementary nutrition under [Integrated Child Development Scheme](#).
  - Children now learn through [virtual reality \(VR\)](#) experiences, interactive stories, and drawing on smart boards.
- **Smarter and Inclusive Governance:** AI is helping the government move from a one-size-fits-all approach to tailored, real-time service delivery.
  - [BharatGen](#), a **government-funded multimodal AI model**, aims to enhance public service delivery in language, speech, and computer vision, catering to India's diverse population.
  - At [Mahakumbh 2025](#), AI tools were used to **manage railway passenger flow**, optimize **crowd dispersal**, and power multilingual chatbots, setting a global benchmark in tech-driven mass event management.
- **Efficient and Targeted Welfare Delivery:** AI models trained on high-quality anonymised datasets (via the [IndiaAI Dataset Platform](#)) can analyse patterns in poverty, health, education, etc.
  - This helps policymakers identify gaps, predict needs, and deliver targeted benefits.
- **Accessibility:** Tools like [Digital India BHASHINI](#), [Sarvam-1](#) break language barriers, making services available in multiple Indian languages, and enhancing inclusivity for differently-abled individuals.
- **Law Enforcement:** AI enables predictive policing, real-time surveillance, and cyber threat detection.
  - Delhi Police uses an AI-driven Facial Recognition System (FRS) to solve crimes and find missing persons.
  - AI accelerates case research, aids in drafting judgments, and helps reduce backlogs, improving justice delivery and legal efficiency.
    - For example, [SUPACE \(Supreme Court Portal for Assistance in Court's Efficiency\)](#) helps judges with legal research.
- **Optimizing Agriculture and Ensuring Food Security:** [Project Farm Vibes](#), developed by **Microsoft Research** and the Agricultural Development Trust, Baramati, is transforming

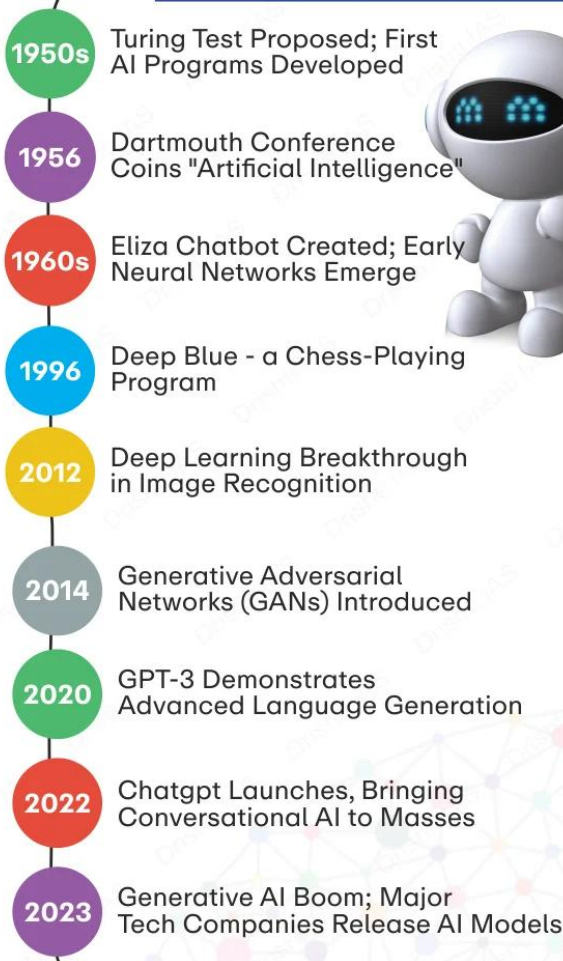
farming with data-driven insights.

- It uses AI tools to analyze field conditions, optimize irrigation, and provide real-time, localized farming recommendations.
  - The project has led to a **40% increase in crop production, reduced water and fertilizer usage, and minimized post-harvest wastage.**
- The AI in agriculture market is projected to grow from USD 1.7 billion in 2023 to USD 4.7 billion by 2028, boosting economic sustainability in farming.
- **Tackling Climate Change and Environmental Monitoring:** AI models support flood prediction, air quality tracking, and climate modelling.
  - Platforms like **Google DeepMind's GenCast** enable citizens to contribute localized weather data, improving real-time predictions.
  - **Mission Mausam**, which aims to make India **"Weather Ready" and "Climate Smart,"** uses AI and satellite data from the **Indian Meteorological Department** and flood monitoring systems to improve **disaster preparedness and flood forecasting.**
    - The **Mausam App** delivers weather updates and warnings in a user-friendly format.
- **Education and Personalized Learning:** AI-powered EdTech enables adaptive learning based on student needs. AI integration being explored in the government's **Digital Infrastructure for Knowledge Sharing (DIKSHA) platform.**
  - In **Tripura**, IAS officer Chandni Chandran launched an **AI-based initiative** to tackle a 70% school dropout rate. Students' career dreams were turned into AI-generated images and displayed on **"Aspirational Boards"** in classrooms.
    - The move has boosted motivation and emotional engagement, with plans to expand it to more schools.
- **Strengthening Urban Governance and Smart Cities:** AI improves traffic flow, waste management, and public service delivery. Bengaluru's **AI-driven Adaptive Traffic Control System (ATCS)** cuts congestion at junctions.
- **Improving Financial Governance and Taxation:** AI helps detect fraud, prevent subsidy leakages, and automate auditing.
  - **MuleHunter.ai**, developed by RBI, detects mule accounts used in financial scams.
- **Better Healthcare:** **Centres of Excellence (CoEs)** in AI for healthcare are developing solutions like disease prediction, which will holistically benefit the health of rural and urban populations across the country.

# 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



## 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

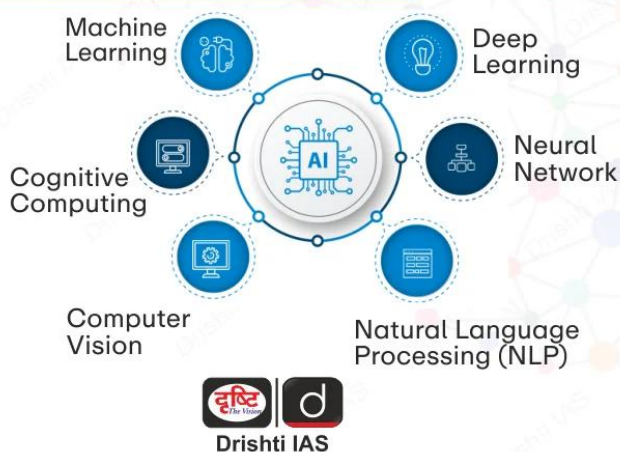
## Regulating AI

- **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



## Conclusion

AI's integration into India's public service delivery enhances **efficiency, inclusivity, and accessibility, improving governance**. Through initiatives like the [IndiaAI Mission](#), India is advancing towards a **more**

**transparent, citizen-centric system**, positioning itself as a global leader in AI-powered governance.

**Drishti Mains Question:**

How is Artificial Intelligence reshaping public service delivery in India? Illustrate with examples.

**UPSC Civil Services Examination, Previous Year Questions (PYQs)**

**Mains**

**Q.** e-governance, as a critical tool of governance, has ushered in effectiveness, transparency and accountability in governments. What inadequacies hamper the enhancement of these features? **(2023)**

**Q.** E-Governance is not only about utilization of the power of new technology, but also much about critical importance of the 'use value' of information Explain. **(2018)**

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