

# Artificial intelligence for biology and agriculture 1st edition

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**When was AI first used in agriculture?** The study of robots for agricultural purposes began as early as in the 1980s, and Japan first developed a robot that can spray pesticide [18].

**How can artificial intelligence AI be used in agriculture?** By collecting data on plant growth, AI can help produce crops that are less prone to disease and better adapted to weather conditions. With the help of AI, scientists can identify the best-performing plant varieties and crossbreed them to create even better hybrids.

**How is artificial intelligence used in biology?** This has enabled research and development (R&D) advances across multiple application areas and industries. For example, AI can be used to analyze genomic data (e.g., DNA sequences) to determine the genetic basis of a particular trait and potentially uncover genetic markers linked with those traits.

**How does AI affect agriculture in India?** The AI can assist farmers in increasing production capacity while lowering production costs and labour-intensive tasks. Predictive analytics, markets, agricultural monitoring, weather forecasting, and supply chain efficiency benefit by AI-driven technologies are gaining popularity across the globe.

**What are the negative effects of AI in agriculture?** 5. Environmental Concerns. While AI optimizes resource use, excessive reliance on AI-driven farming practices might have unintended environmental consequences. Overuse of technology can lead to increased energy consumption, waste generation from outdated systems, or even the neglect of traditional sustainable practices ...

**Which is the first AI ChatBot for agriculture?** It will run under a pilot project involving more than 10,000 farmers and will be implemented in full fledged in next two months. Governor of Odisha Prof. Ganeshi Lal inaugurating Ama KrushAI, an AI-powered ChatBot.

**What is the conclusion of AI in agriculture?** Conclusion. AI in agriculture offers numerous opportunities to farmers, including improved crop health monitoring, precision farming, and weather forecasting.

**What is the AI program for farmers?** 'Kisan e-Mitra' an AI-powered chatbot to assist farmers with queries about the PM Kisan Samman Nidhi scheme. This solution supports multiple languages and is evolving to assist with other government programs. National Pest Surveillance System for tackling the loss of produce due to climate change.

**What are the three main chemicals used in agriculture?** Many farmers choose to use chemicals to keep weeds and pests from destroying their crops and to add more nutrients to the soil. There are three different kinds of pesticides; herbicides, insecticides and fungicides. All three of these pesticides are used to kill different kinds of pests that can be found on a farm.

**What is the best AI for biology?** Meet HyperWrite's Biology Assistant, your AI-powered research tool for biology-related inquiries. Using advanced AI models, this tool scours scholarly articles and research papers to provide comprehensive, factual answers to your biology questions. It's like having your own personal biology tutor at your fingertips.

**What is the function of AI in biology?** The goals of applying of AI in biology go beyond prediction or classification. Biologists are eager to use AI for learning biological knowledge from their data and guiding them to design new experiments and translational strategies.

**Can a biology student do artificial intelligence?** As a biology student, you may explore AI and machine learning. Machine learning and artificial intelligence may be used to analyse and understand many biological issues, including genetics and ecology.

**Why do farmers use AI?** Application of AI in agriculture provides farmers with real-time crop insights, helping them to identify which areas need irrigation, fertilization, or pesticide treatment.

**Will AI take over agriculture?** It's much more likely that instead of taking over jobs, AI will help agriculture as a whole. The average age of farm producers has been rising, and in 2017, the average age of a farmer or rancher was 57.5 years old. New technology, including AI, can help aging producers and make their jobs easier.

**Which countries are using AI in agriculture?** Countries like the United States, Germany, and India are at the forefront of using artificial intelligence in agriculture. These nations leverage AI technologies for various applications, including crop monitoring, predictive analytics, and the development of agricultural robotics.

**What are 5 disadvantages of AI?**

**How AI could be harmful?** If AI algorithms are biased or used in a malicious manner — such as in the form of deliberate disinformation campaigns or autonomous lethal weapons — they could cause significant harm toward humans. Though as of right now, it is unknown whether AI is capable of causing human extinction.

**How bad is AI for the environment?** Here are some of the ways AI could prove harmful to the planet: Disposal & Electronic Waste – AI requires more technology and computers to be running than usual, meaning at the end of its life cycle – AI could create more electronic waste than previous computer systems installed at business facilities.

**Who is the father of AI?** The correct answer is option 3 i.e ?John McCarthy. John McCarthy is considered as the father of Artificial Intelligence. John McCarthy was an American computer scientist. The term "artificial intelligence" was coined by him.

**What did people use before ChatGPT?** Over the years, there have been many versions of these tools. There were other early chatbots, like Dr. Sbaitso, Parry, and Alice. In the early aughts, there was SmarterChild, the irreverent AIM bot that introduced so many teens and tweens to the idea that a computer could talk back.

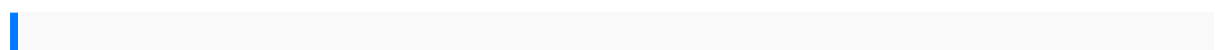
**How many farms use AI?** A majority of agriculture industry players—87 percent—are using AI, up from 84 percent in 2019, according to a report from RELX, a British information technology group.

**When did AI start to be used?** In reality, the groundwork for AI began in the early 1900s. And although the biggest strides weren't made until the 1950s, it wouldn't have been possible without the work of early experts in many different fields.

**When was the first agricultural robot made?** The first development of robotics in agriculture can be dated as early as the 1920s, with research to incorporate automatic vehicle guidance into agriculture beginning to take shape. This research led to the advancements between the 1950s and 60s of autonomous agricultural vehicles.

**What was the AI in the early 2000s?** During the 2000s, AI made significant strides in areas such as natural language processing, computer vision, and speech recognition. This was made possible by advancements in algorithms, computing power, and data availability.

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