# Introduction to Artificial Intelligence

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## What is AI?

**Artificial Intelligence (AI)** is the simulation of human intelligence by machines programmed to mimic cognitive functions such as *learning, reasoning, and problem-solving*. AI is directly related to technological advancements, meaning what was considered AI 100 years ago may not be considered AI now. Understanding AI’s history is essential to appreciating its evolution.

## Key Moments in AI History

| Year | AI Name/Concept | Description |
| --- | --- | --- |
| 1936 | Alan Turing’s Universal Machine | Proposed a machine capable of performing computations, laying the foundation of AI. |
| 1950 | Turing Test | A test to determine if a machine exhibits intelligent behavior indistinguishable from humans. |
| 1956 | Dartmouth Conference | The term Artificial Intelligence was coined, marking the formal start of AI as a field. |
| 1957 | Perceptron | Frank Rosenblatt developed an early neural network model for pattern recognition. |
| 1964-66 | ELIZA | An early natural language processing program simulating a psychotherapist. |
| 1970 | Shakey the Robot | The first robot to reason about its actions, combining perception and planning. |
| 1980s | Expert Systems | Mimicked human decision-making in domains like medical diagnosis. |
| 1997 | IBM Deep Blue | Became the first computer to beat a world chess champion in a six-game match. |
| 2011 | IBM Watson | Won *Jeopardy!*, demonstrating advanced natural language processing. |
| 2012 | AlexNet | Revolutionized deep learning with groundbreaking accuracy in image recognition. |
| 2016 | Google DeepMind AlphaGo | Mastered the board game Go using reinforcement learning. |
| 2020 | OpenAI GPT-3 | Showcased advanced human-like text generation with 175 billion parameters. |

## Embedded Video

Watch this video to learn more about the history of AI:

## Looking Ahead

By 2050, AI-powered technologies could revolutionize patient care, enabling faster and more accurate diagnoses, customized treatment plans, and the discovery of groundbreaking therapies. AI may also play a significant role in predicting and preventing diseases, leading to better population health management.

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