

Progression of AI from Machine Learning → Deep Learning → Generative AI

1. Mathematica (1988) — Symbolic Computation with Machine Learning Features

Primarily symbolic math software; recent versions integrate machine learning functions for data analysis and modeling.

2. Google Search (1997) — Machine Learning + Deep Learning

Improves search results using machine learning and deep learning models like BERT to understand query context.

3. YouTube Recommendations (2005) — Machine Learning

Suggests videos based on user behavior and preferences.

4. Google Translate (2006) — Machine Learning

Translates languages by learning from vast multilingual text data.

5. Netflix Recommendation System (2006) — Machine Learning

Personalizes movie/show recommendations by analyzing viewing habits.

6. Wolfram Alpha (2009) — Computational Knowledge Engine with Machine Learning

Computes answers from curated data and algorithms, using machine learning to interpret natural language queries.

7. Grammarly (2009) — Machine Learning

Analyzes text for grammar and style using machine learning.

8. Siri (Apple, 2011) — Machine Learning

Uses machine learning to understand and respond to voice commands, improving through user interactions.

9. Alexa (Amazon, 2014) — Machine Learning

Voice assistant employing machine learning to process speech and perform tasks.

10. Google Photos Auto-tagging (2015) — Deep Learning

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Automatically tags images using object and face recognition.

11. Snapchat Filters (2015) — Deep Learning

Uses deep learning for facial recognition and augmented reality effects.

12. Tesla Autopilot (2015) — Deep Learning

Uses neural networks to process sensor data for autonomous driving.

13. Google Assistant (2016) — Machine Learning

Combines machine learning and natural language processing for conversational tasks.

14. DeepMind AlphaGo (2016) — Deep Learning

Masters the game of Go with neural networks and reinforcement learning.

15. DALL·E (OpenAI, 2021) — Generative AI

Creates images from text prompts using deep learning.

16. ChatGPT (OpenAI, 2022) — Generative AI

Generates human-like text responses based on large language models.

17. MagicSchool AI (2023) — Generative AI + Machine Learning

An AI platform designed for educators, combining generative AI and machine learning to create personalized educational resources and support teaching.