

Artificial Intelligence (AI)

Definition

AI = A system that can learn from data and make predictions or decisions. It mimics human intelligence to some extent.

Example

Face recognition in phones

Recommendation system (YouTube, Netflix)

Spam email detection

Key Point

Learns from data

Doesn't act on its own

Needs human trigger

Simple Analogy

A Smart Advisor It gives suggestions,

but you decide and act.

Automation

Definition

Automation Doing a fixed task automatically using deterministic and predefined rules.

No thinking. No learning. Just “If this → do that.”

Example

Sending an email when a form is submitted

Coffee maker with a timer brewing at 7 AM daily

Automatic doors opening when you approach

Sprinkler system watering lawn every Tuesday at 6 PM

Key Point

No intelligence

No decision making

Very fast & reliable for repetitive work

Simple Analogy

Washing Machine You set the mode → it runs → finishes It doesn't care if clothes are very dirty or lightly dirty.

AI Automation

Definition

Combining AI with automation so systems can handle tasks intelligently and adapt based on data, not just follow rigid rules.

Example

Resume screening: AI analyzes resumes Automation sends rejection/shortlist emails

Chatbot that answers FAQs automatically

Key Point

Intelligent decisions

Automatic execution

Still follows a predefined flow

Simple Analogy

YouTube recommendations - Doesn't just show random videos. It learns what you watch, how long you watch, what you skip, and automatically curates your feed to match your interests.

Agentic AI (Most Advanced)

Definition

AI systems that can independently set goals, make decisions, plan multiple steps, and take actions to achieve objectives with minimal human guidance.

Example

An AI travel agent that books your entire trip (flights, hotels, restaurants) based on your preferences and budget, then monitors for price drops and reboks automatically

Claude Code analyzing your codebase, identifying bugs, creating a fix plan, implementing changes, and running tests without you asking for each step

A personal AI assistant that notices your groceries are low, orders replacements, finds the best deals, and schedules delivery around your calendar

Key Point

Has goals Can reason & plan

Uses tools and Memory

Works autonomously

Simple Analogy

Instead of you saying "book me a flight," they notice you have a meeting in another city next week, check your calendar, find the best flight options, book it, arrange a hotel near the venue, and add everything to your schedule—all without you asking.

One-Line Comparison

Concept	Thinks	Acts Automatically	Learns	Goal- Driven
Automation	No	Yes	No	No
Artificial Intelligence (AI)	Yes	No	Yes	No
AI Automation	Yes	Yes	Yes (Limited)	No
Agentic AI	Yes	Yes	Yes	Yes

Final Punchline

"Automation follows rules.

AI thinks.

AI Automation thinks and acts.

Agentic AI thinks, plans, acts, and improves — like a human."