



Session 1 | Entering the World of Artificial Intelligence

Where Did AI Come From and Where Is It Going?

A quick journey from Alan Turing's dream to intelligent agents in 2026

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What Will We Learn in This Session?



Understanding the Future

Preparing for new career opportunities



Historical Evolution

The path of progress from 1950 to 2026



Distinguishing the Layers

The boundary between Machine Learning and Deep Learning



Concept in Simple Language

A precise definition without technical complexity

What Is Artificial Intelligence?

Human like Learning



Recognizing faces and objects by observing thousands of sample images

Discovering Hidden Patterns



Automatically extracting rules from data without writing code line by line

Learning from experience instead of fixed code

Traditional programming is like a fixed recipe; AI is a chef who improves the taste by tasting the food.

Artificial Intelligence in Our Daily Lives

Online Stores (Digikala)

Smart product recommendations based on customer preferences



Navigation Apps (Google Maps & Neshan)

Live traffic prediction and choosing the fastest route



Instagram & Voice Assistants

Face recognition filters and understanding voice commands



Watching Movies (Netflix)

Recommending new movies based on viewing history



The Difference Between AI, Machine Learning, and Deep Learning

1. The Large Circle: Artificial Intelligence (AI)

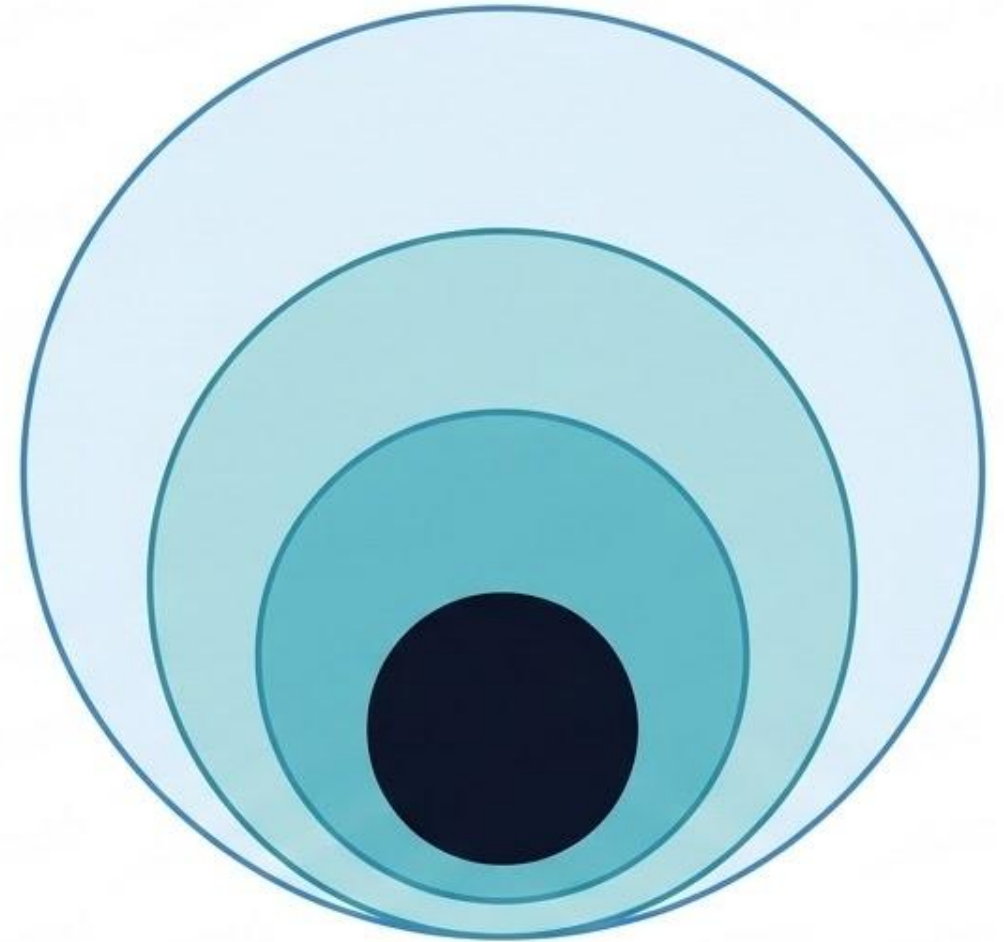
A broad concept for any system capable of smart behavior.

2. The Middle Circle: Machine Learning (ML)

Algorithms that learn patterns from past data.

3. The Core Circle: Deep Learning (DL)

Multi-layered neural networks inspired by the human brain.



From Turing's Dream to AI Winter

1950 – Turing Test

Proposing the first benchmark for measuring machine intelligence

1956 – Dartmouth Conference

Official coining of "Artificial Intelligence" by John McCarthy

1970s & 1980s – AI Winter

Funding cuts due to limitations of early hardware



"Can Machines Think?"

Alan Turing – 1950

Milestones of the Modern Era (1997 to 2026)

2026

AI Agents

Autonomous Execution of
Projects

2022

ChatGPT Explosion

Democratization of
Generative AI

2017

Transformer Architecture

Laying Foundation for
LLMs

2012

Deep Learning Breakthrough

Neural Networks Shine in
Vision

1997

Deep Blue Victory

Defeating World Chess
Champion

Why is Now the Golden Age of AI?

Thousands of Times More Power

2. Graphics Processing Units (GPUs)

Ultra-fast hardware for parallel processing

Exponential Data Growth

1. Big Data Explosion

Generating billions of gigabytes of training data on the web

Hundreds of Billions in Capital

4. Massive Global Investment

Tech giants competing to build more powerful models

Leap in Model Accuracy

3. Next-Generation Algorithms

Deep understanding of text, vision, and audio via Transformer architecture

Weak AI vs. Strong AI

Artificial General Intelligence (AGI)

Versatile: Equal to human intelligence across all domains

Current Status: Future research goal (not yet achieved)

Key Feature: Fully autonomous understanding & decision-making

Artificial Narrow Intelligence (ANI)

Single-Domain Expertise: Excellence in a specific task

Current Status: All present-day AI tools

Common Examples: Chatbots, machine translation, autonomous vehicles

The Wonder of AlphaGo: Beyond Simple Computation



600 × 400

4–1 Victory Against World Champion Lee Sedol

Infinite Complexity: More game states than atoms in the universe

Move 37: Creativity that no human master anticipated

Medical Breakthrough: Paving the way for protein discovery with AlphaFold

AI Myths and Realities

Common Myth	Scientific Reality
1. Robots will soon take over the world	Tools lack consciousness, intent, or personal emotions
2. All human jobs will be eliminated	Jobs evolve and new skills emerge
3. Only programmers can use AI	Accessible to everyone through simple natural language
4. AI responses are always 100% accurate	Statistical errors or hallucinations can occur

Where is Artificial Intelligence Heading?



1. Autonomous AI Agents

End-to-end task planning and execution instead of simple text responses

2. Multimodal AI

Real-time understanding and generation of text, voice, image, and video

3. Personal Healthcare & Education Assistants

Personalized health advisor and dedicated tutor for every citizen

Opportunities and Challenges Ahead

Challenges Requiring Management



Privacy: Protecting personal and organizational data

Deepfake: Distinguishing real content from synthetic

Upskilling: Essential learning for AI-powered tools

Golden Opportunities



Productivity Surge: Automating repetitive tasks in seconds

Healthcare Revolution: High-accuracy early disease detection

Equal Education: Easy access to global knowledge in Persian

Session Assignment: Your First Practical Experience

03

Take a Screenshot

Capture a screenshot of the answer and share it for the next session

02

Creative Prompt

Ask it to explain a complex topic to a 10-year-old child

01

Access the Tool

Go to the ChatGPT or Gemini website or app

Key Takeaway: AI won't replace humans, but humans using AI will replace those who don't.

End of Session 1 from the 10-Session Comprehensive Course

Thank You for Joining!

Session 2: Introduction to Large Language Models and Prompt Engineering

Producer & Instructor: Amin Maghrebi

Educational Website: [link removed]

Telegram: [link removed]

Image Sources

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