



Masterclass

Introduction to AI
Sem 1, Foundation Studies UID
2025

Three teal semi-circles of increasing size are arranged horizontally on the left side of the slide. The largest semi-circle is on the right, and the text 'Welcome everyone!' is written in white across its center.

Welcome everyone!



Contents

- What is AI: definitions and examples
- Types of AI: ANI, AGI, ASI
- Strength and Limitation
- AI in Everyday Life
- History of AI
- Brief introduction to AI agents and Agentic AI
- Explanation of the Research – Ideate – Execute framework and assignment guidelines



WHAT IS AI?



WHAT IS AI?

Artificial Intelligence is the simulation of human intelligence in machines that are programmed to think, learn, and make decisions like humans.

Alternative Definitions:

- "The capability of a machine to imitate intelligent human behavior" - Merriam-Webster
- "AI is a system's ability to correctly interpret external data, learn from such data, and use those learnings to achieve specific goals" - Andreas Kaplan

TYPES OF AI

ANI vs. AGI vs. ASI



Artificial narrow intelligence (ANI)

Designed to perform specific tasks



Artificial general intelligence (AGI)

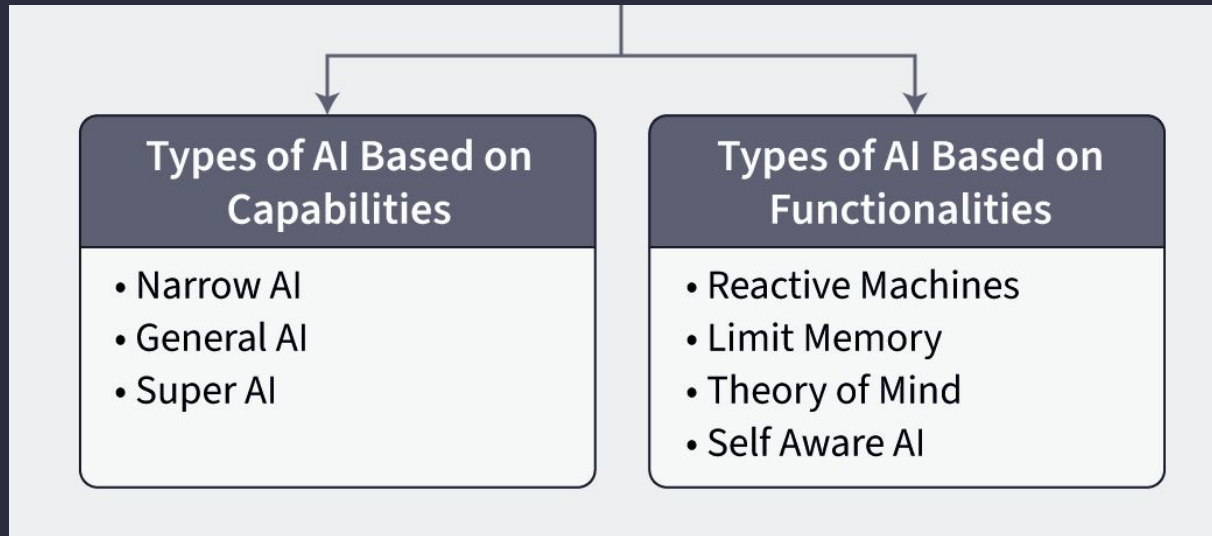
Can behave in a human-like way across all tasks



Artificial super intelligence (ASI)

Smarter than humans—the stuff of sci-fi

TYPES OF AI



STRENGTH AND LIMITATION

- **Strengths of AI:**

- AI excels in processing vast amounts of data rapidly and accurately, uncovering patterns that may elude human analysts.
- It can operate continuously without fatigue and is capable of optimizing processes in real-time.

- **Limitations of Human Intelligence:**

- Human decision-making can be subject to biases and emotions, leading to inconsistent performance and irrational choices.
- Cognitive limitations restrict the ability to analyze large datasets quickly, making humans slower than AI in certain contexts.

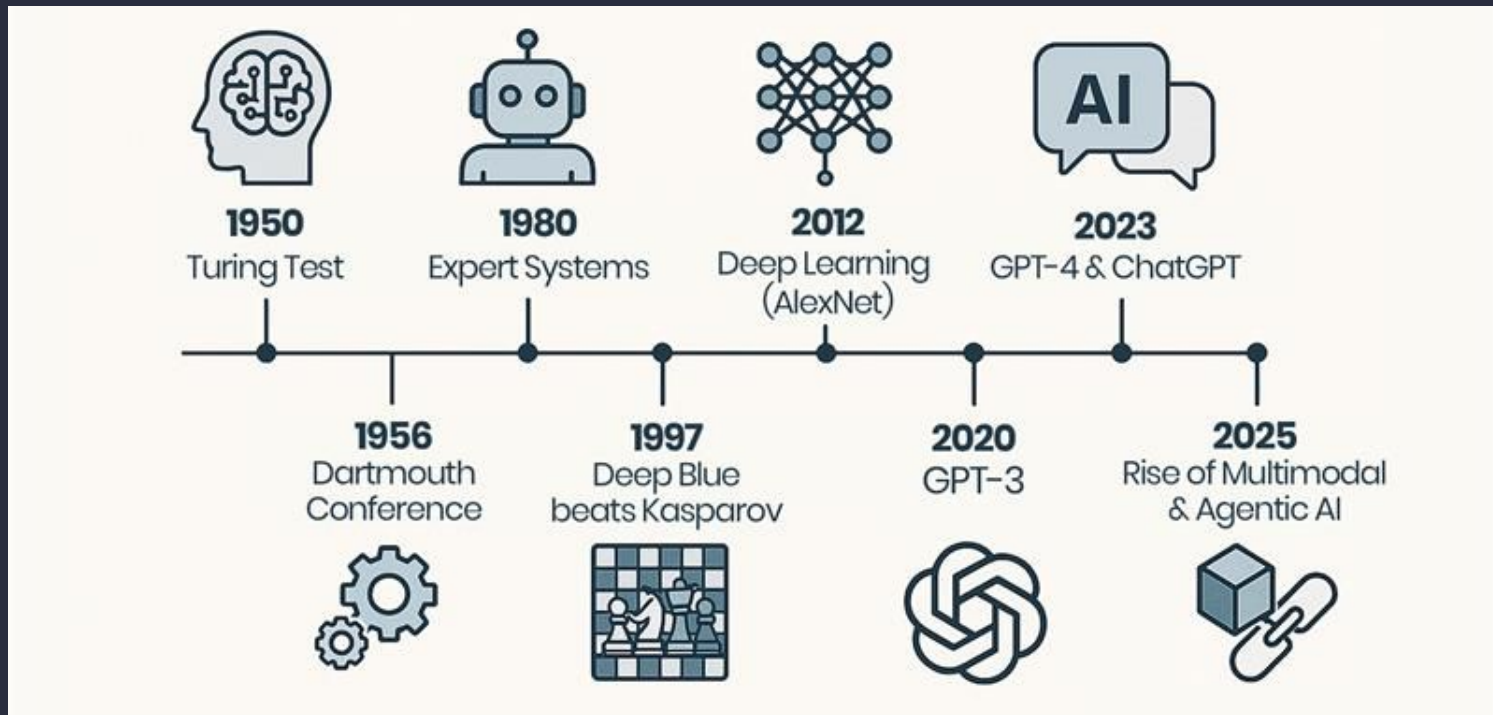
- **Synergy between AI and Humans:**

- While AI can enhance decision-making with data-driven insights, human intuition, creativity, and ethical considerations are irreplaceable. The goal is to foster collaboration, leveraging the strengths of both.

AI IN EVERYDAY LIFE

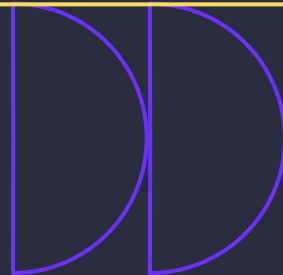


HISTORY OF AI



Design is problem solving

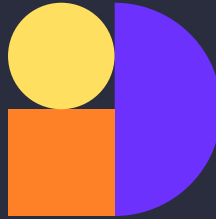
With AI, your canvas for solutions is infinite.
Don't just design *for* AI, design *with* AI



NEXT FRONTIER – AI AGENTS



AI AGENTS



AGENTIC AI



AUTONOMOUS AGENTS

NEXT FRONTIER – AI AGENTS

AI Agent

A program that does tasks for you using AI.

Example: a chatbot that helps you pick food from a restaurant menu.

Tool example: ChatGPT answering your questions.

Agentic AI

AI that not only answers but also decides and takes steps toward a goal.

Example: it doesn't just suggest dishes but also books your table.

Tool example: Microsoft Copilot planning and executing tasks inside Office apps.

Autonomous Agent

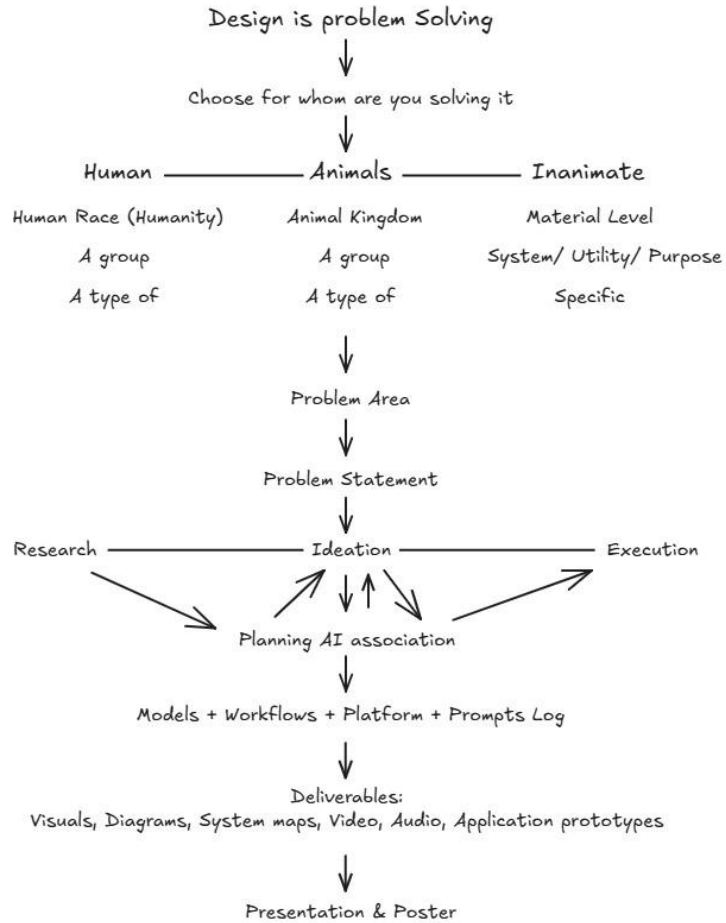
An AI that works on its own without needing step-by-step instructions.

Example: a delivery robot that takes your food from the kitchen to your house without anyone guiding it.

Tool example: AutoGPT running a project by itself with minimal human input.

Module and Assignment

Session Plan - Introduction to AI, Sem-1 Foundation
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Q
A



Thank you