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course	🤖 AI
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Resource	☐

Notes

Imagined AI vs Real AI

Imagined AI	Real AI
- AI created by human imagination	- AI with practical impacts on real-world applications
- Found in fiction, movies, games, or art	- Meets certain criteria or standards for functionality
- Examples: AI art generators, futuristic AI	- Examples: AI in healthcare, customer service
- Explores potential of AI in various domains	- Explores AI characteristics, challenges

What is Intelligence?

- **Definition**: Ability to solve problems, think, plan, and manipulate information.
- **Scenarios**: Problem-solving (e.g., maze navigation), thinking, planning, memory manipulation.
- **Expertise**: Efficient information manipulation (e.g., expert systems, fingerprint recognition).

- **Learning**: Recognition and pattern recognition (e.g., machine learning).

Intelligent Machines

- **Capabilities**: Problem-solving, planning, diagnosis, pattern recognition.
- **Examples**: Search algorithms, diagnosing, recognizing fingerprints.
- **Significance**: Mimics human-like behavior, advances AI technology.

Formal Definition for AI

- **Definition**: Science and engineering of making intelligent machines.
- **Objective**: Building entities capable of intelligent behavior.
- **Aim**: Develop systems beyond biological observability.

Strong AI vs Weak AI

Strong AI	Weak AI
- Hypothetical AI with human-like abilities	- AI performs specific tasks
- Examples: Alexa, Netflix, Gmail	- Examples: Chess-playing AI, virtual assistants
- Creativity, self-awareness	- Task-specific functionality

AI Applications

- **Domains**: Robotics, vision, logical systems, decision making.
- **Examples**: Object recognition, medical diagnosis, game playing.
- **Impact**: Revolutionizes industries, enhances efficiency.

History of AI

- **Pre-History**: Contributions from philosophy, mathematics, psychology, engineering.
- **Milestones**: Birth of AI (1956), development of Lisp, microworlds.
- **Significance**: Lays foundation for subsequent advancements.

Development Milestones

- **Birth of AI (1956)**: Dartmouth Workshop pioneers AI research.
- **General Problem Solver (GPS)**: Mimics human problem-solving.
- **Development of Lisp**: Dominant AI programming language.