Types of AI Agents:

- Simple Reflex Agents React to immediate percepts using condition-action rules.
- Model-Based Reflex Agents Maintain an internal model to reason about the environment.
- Learning Agents Adapt over time using feedback and experience.

Challenges in Al:

- Machine Learning Limitations Struggles with high-level abstractions and learning from reading.
- Lack of Subjective Consciousness Al lacks self-awareness, creativity, and true human-like intelligence.
- Symbolic vs. Neural AI Bridging logic-based reasoning with deep learning remains a major hurdle.

Logic-Based AI & Reasoning:

- Al reasoning can be **monotonic** (fixed logic) or **nonmonotonic** (adaptive reasoning).
- **Key Techniques**: Common logic, knowledge representation, and **encoding down** for efficient AI reasoning.