

1 Defining AI is Complex:

- AI spans **philosophy, science, and engineering**.
- Best defined by **its goals**, as suggested by **Russell & Norvig**.

2 Two Key Approaches to AI:

- **Human-Based:** AI **thinks/acts like humans**.
- **Ideal Rationality:** AI **thinks/acts rationally**.

3 AI as Intelligent Agents (Russell & Norvig):

- AI = **perceives environment** → **takes rational actions**.
- Concepts: **Perfect Rationality** (maximizing utility) & **Bounded Optimality** (acting optimally under limits).

4 Alternative View – AI as an Intelligence Test:

- AI intelligence measured by **standardized tests** (e.g., Wechsler).
- **Project Aristo & Psychometric AI:** AI excelling in human exams.

5 Key Takeaway:

AI can be seen as **imitating humans, acting rationally, or optimizing decisions**—its definition continues to evolve. 🚀