Training Report – Day 5

Topic Covered Today:

- History and Evolution of Artificial Intelligence
- Narrow AI (Weak AI)
- Strong AI (General AI)

Key Learning:

History of Artificial Intelligence:

Today I learned about the history and milestones of Artificial Intelligence (AI). AI as a concept was first introduced in the **1950s** when Alan Turing proposed the **Turing Test** to measure machine intelligence. Later, John McCarthy coined the term "Artificial Intelligence" in 1956 during the Dartmouth Conference.

Important phases in AI development include:

- **1950s–1970s:** Early research, symbolic AI, and expert systems.
- **1980s–1990s:** Rise of machine learning and neural networks.
- **2000s–Present:** Growth of deep learning, natural language processing, robotics, and applications like self-driving cars, healthcare AI, and personal assistants (Siri, Alexa, Google Assistant).

This history shows that AI has evolved from simple problem-solving machines to highly advanced systems capable of learning from data and making predictions.

Narrow AI (Weak AI):

Narrow AI refers to **AI systems designed to perform specific tasks** with intelligence, but they cannot perform beyond their programmed functions.
Examples:

- Spam email filters
- Face recognition in smartphones
- Chatbots and virtual assistants
- Recommendation systems on YouTube, Netflix, and Amazon

These systems are very efficient in their task but lack the ability to think or reason beyond their designed purpose.

Strong AI (General AI):

Strong AI refers to the idea of machines that can perform **any intellectual task just like a human being**. It would have the ability to learn, reason, and adapt to new situations without being explicitly programmed.

- Still theoretical and under research.
- Aims to replicate human-level consciousness and intelligence.
- Could revolutionize industries but also raises ethical and safety concerns.

Examples:

- Not yet achieved, but research in robotics, deep learning, and cognitive computing is moving toward this goal.

Activities / Assignments:

- Read and noted down the **timeline of AI development**.
- Compared **Narrow AI vs Strong AI** with real-life examples.
- Discussed how today's AI systems like ChatGPT, Alexa, and self-driving cars fall under **Narrow AI**.
- Explored case studies of AI applications in healthcare, finance, and entertainment.
- Prepared a chart showing **AI evolution from 1950s to present**.

Personal Reflection for Day 5:

Today's session gave me a deeper understanding of how **Artificial Intelligence evolved over time** and the difference between what we use today (Narrow AI) and what scientists aim to achieve in the future (Strong AI).

I realized that almost all the AI applications I use daily, like Google Maps, YouTube recommendations, and voice assistants, are examples of Narrow AI. Strong AI, though still a dream, could transform the world by creating machines that can truly think and learn like humans.

This session helped me connect the **past, present, and future of AI** and made me more curious about upcoming innovations in the field.