In this week, titled **"Introduction to Agentic AI"**, you will explore the **core principles and concepts behind agentic systems**, focusing on AI models capable of reasoning, planning, and taking autonomous actions. This module lays the groundwork for understanding how agents differ from traditional AI models and what enables them to act with purpose and adaptability. A key focus of this module is understanding the **architecture and behavior of AI agents**, including how they perceive information, make decisions, and execute tasks. You will also gain insight into the **building blocks of agentic intelligence**, setting the stage for developing and deploying your own intelligent, goal-driven agents.

Learning Objectives

After completing this week, you will be able to:

1. Understand the foundational principles and purpose of Agentic AI within modern intelligent systems.
2. Explain how agentic systems evolve from traditional AI and what enables them to operate autonomously.
3. Analyze the decision-making processes and adaptive behaviors that define intelligent agents.
4. Explore the internal mechanisms that allow agents to reason, plan, and interact effectively with their environment.
5. Apply advanced frameworks and retrieval-augmented techniques to design and build functional, goal-driven AI agents.

Topics Covered

Week #	Week Name	Topics Covered
6	Introduction to Agentic AI	1. Foundations and evolution of Agentic AI 2. Understanding agent behavior and internal architecture 3. Designing intelligent agentic systems 4. Applying advanced RAG techniques for agent development 5. Learning and implementing the ReAct framework 6. Building hands-on RAG-powered Agentic applications

Week #	Week Name	# Videos	Duration (in hrs)	# Test Your Understanding (TYU) Quizzes	Practice Quiz	Graded Quiz
6	Introduction to Agentic AI	15	~2	13	1	1

Happy Learning !!