AGENTIC AI

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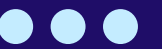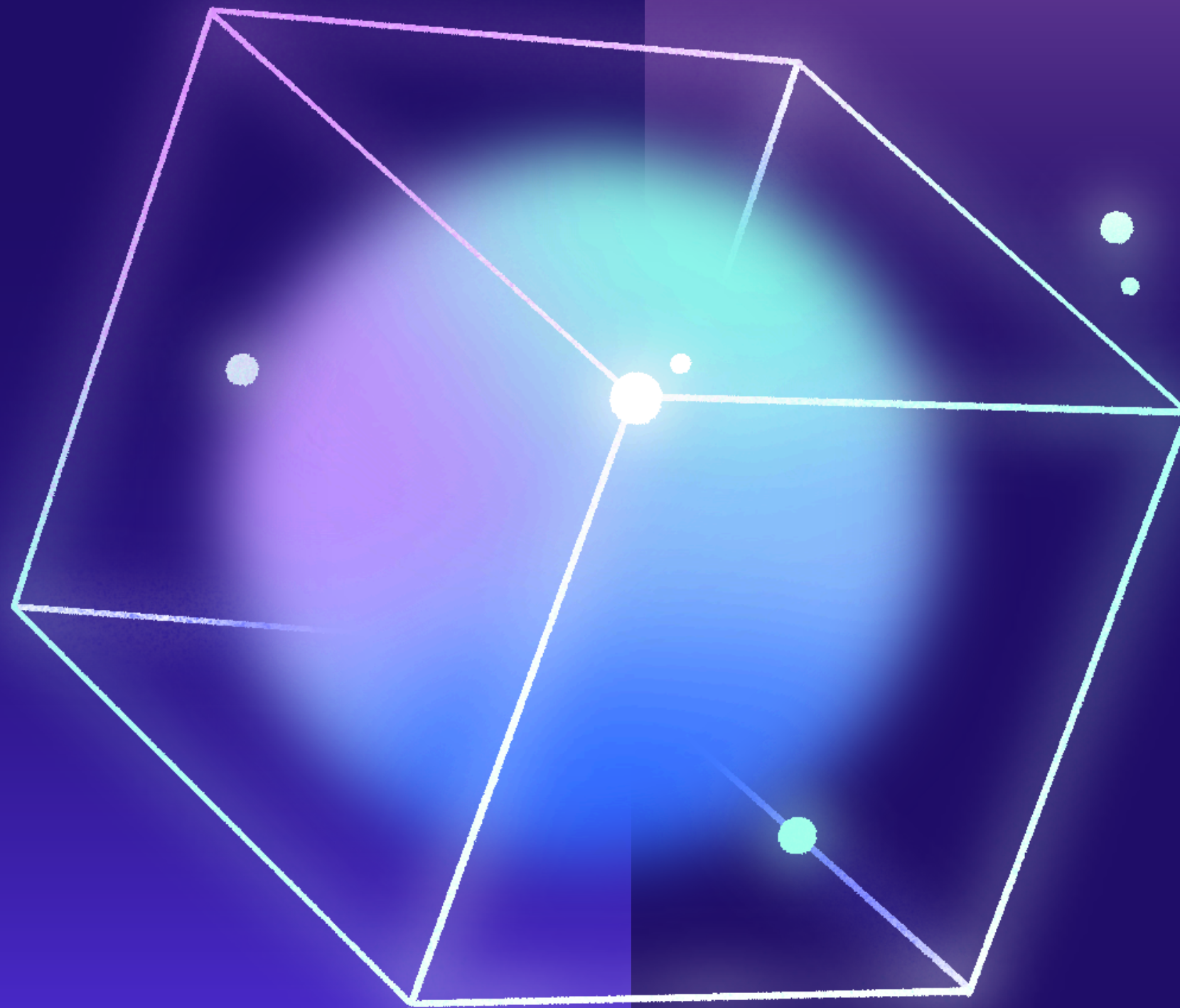
INTRODUCTION

🤖 What is Agentic AI? (Simple Explanation)
Agentic AI is a smart computer program that can think, plan, and take actions on its own — kind of like a robot with a brain that makes decisions.

- 🧠 It doesn't just wait for orders — it decides what to do by itself.
- 🎯 It knows its goal and works step by step to reach it.
- 🔄 If something changes, it can adjust its plan without help.
- 👩‍🎓 It's like a student who learns, solves problems, and completes tasks — without being told what to do every time.

So, Agentic AI is different from normal AI because it acts more like a helper who can think, not just follow commands.

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🤔 HOW DO AI AGENTS WORK?

AI agents are like smart helpers that can sense, think, and act on their own. Here's how they do it:

- 👀 They observe the world:
- AI agents use tools like cameras, sensors, or data to see or understand what's happening around them.
- 🧠 They think about what to do:
- After seeing what's happening, the agent makes a plan in its "brain" (which is a computer program).
- 🎯 They set a goal:
- For example: "Clean the room" or "Answer a question" — and then they try to reach that goal.
- 🗺️ They make a step-by-step plan:
- The agent decides what steps it should take, like "First pick up the toys, then sweep the floor."
- 🚀 They take action:
- The agent follows the plan and does the task — all by itself!
- 🔄 They check again and change if needed:
- If something goes wrong, they can change the plan and try again.

KEY CONCEPTS IN AGENTIC AI

- 🎯 **Goal**
1. A goal is what the agent wants to achieve.
2. 👉 Example: "Find the shortest way home" or "Clean the room."
- 🧠 **Autonomy**
1. This means the agent can make its own decisions — it doesn't always wait for instructions.
2. 👉 Like a kid doing homework without being told every step.
- 🗺️ **Planning**
1. The agent can make a plan to reach its goal.
2. 👉 Like making a list of things to do: 1. Pick up toys, 2. Put them in the box, 3. Sweep the floor.

- 🌀 Adaptability
1. The agent can change its plan if something new happens.
2. 👉 If the door is blocked, it finds a new way.
- 🔄 Feedback
1. The agent checks if it's doing a good job and learns from its mistakes.
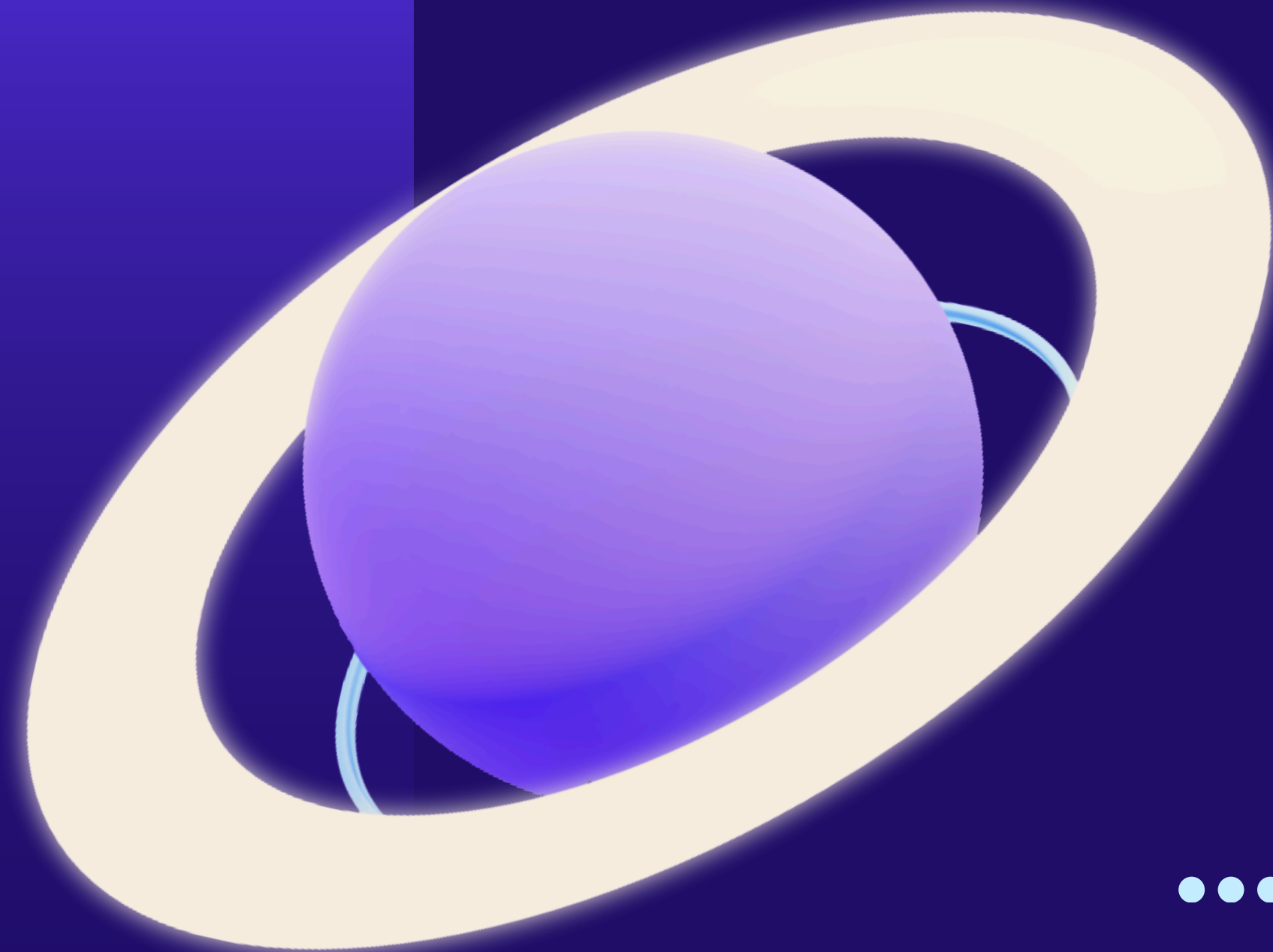2. 👉 Like getting a grade on a test and doing better next time.

TOOLS AND RESOURCES USED TO LEARN AGENTIC AI

Tool / Resource	Purpose	Examples	Best Use
Search Engines	Explore definitions, articles, and use cases	Google, Bing	Quick topic research
Educational Videos	Watch visual explanations and expert breakdowns	YouTube (DeepLearningAI, Two Minute Papers)	Beginner-friendly visual lear
Blogs and Articles	Get simplified insights and real-world examples	Medium, Hashnode, Towards Data Science	Simplified reading with exam
Research Papers	Gain in-depth technical knowledge	arXiv, Google Scholar, Semantic Scholar	Advanced academic underst
Note-Taking Tools	Write and organize learning notes	Notion, Google Docs, Evernote	Summarizing & remembering
AI Tools for Assistance	Ask questions and get quick summaries	ChatGPT, Perplexity AI	Clarifying doubts and explor

GET IN TOUCH
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