Build Your Own AI Agent – Workshop

Slide Structure

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1. Welcome

● Quick welcome and introduction
 ● What this session is about
 ● What participants will build by the end of the workshop

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2. What Is an AI Agent?

We introduce the **final concept early** so participants know where we're heading.

● An **AI Agent** is an LLM with initiative
 ● It works toward a **goal** instead of waiting for instructions
 ● It can plan steps, make decisions, and use tools

Agent superpowers:
 ● Decide what to do next
 ● Break down a bigger task
 ● Use tools or APIs
 ● Repeat actions until the goal is reached

   This sets the context for everything that follows.

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3. Difference Between AI Agent, LLM, and Automation

LLM (Foundation)

We start with the most basic building block.

● An LLM is a smart text model that understands and generates language
 ● It only responds when prompted
 ● It has no memory, no goals, and no initiative

Example:
Asking ChatGPT to summarize a page or explain a concept

Workflow

Now we add structure.

● A workflow is like a **recipe** for the AI
 ● It defines fixed steps:

    1. Take an input

    2. Process it

    3. Produce an output

Example:
"Take my text → Summarize → Extract key points → Rewrite professionally"

● Workflows are structured but **still don't make decisions**

Automation

● Automation runs workflows automatically
 ● Trigger-based and rule-driven
 ● No reasoning or adaptation

Example:
Generate a report every Sunday

AI Agent (Final Level)

● An AI Agent can decide **which steps to take and when**
 ● It adapts based on results
 ● It repeats actions until the goal is achieved

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4. Agent Example: Study Planner

We now show the **real example** participants will build.

- Show what the final agent can do.
- Explain the input (courses, deadlines, available hours)
- Show the type of schedule the agent will generate
- Utilize a suitable LLM

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5. Components of an AI Agent (Nodes)

Break the agent into understandable building blocks.

- LLM (the brain)
- Prompt / System instructions
- Memory (context, user input)
- Tools (calculations, schedules, APIs)
- Logic / decision-making
- Output

These components will later appear as **nodes** in the tool.

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6. Tool Demo: Flowise Platform

Quick visual overview.

- Show the Flowise interface
- Explain the main blocks (nodes)
- Show how nodes connect
- Explain why Flowise is beginner-friendly:

  - No heavy setup

  - Visual building

  - Easy testing

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7. Start Building (Hands-On)

Live guided implementation.

● Everyone builds the same agent
 ● Instructor leads step-by-step
 ● Short pauses to let participants catch up
 ● Test after each major step

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8. Questions & Wrap-Up

● Participants test the agent with their own data
 ● Fix common issues
 ● Quick recap of:

- LLM

- Workflow

- Automation

- AI Agent
  ● Encourage extending the agent later