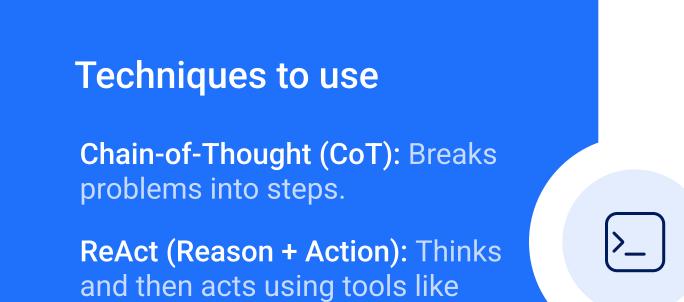
# How to Build Agentic LLMs A Step-by-Step Guide

Building an agentic LLM isn't just about better text—it's about smarter decision-making, memory, and action.

# **01- Effective Prompting**

Why it matters Prompting is the foundation of agent behavior.



Example: CoT + ReAct

**Prompt:** "I'm hungry. What should I eat?"

- CoT: • I have rice, eggs, and veggies.
  - I want something quick—maybe fried rice.
  - Let me find a recipe.
- **ReAct:** Action: Search [quick fried rice recipe]
  - Result: Found a 15-min recipe
  - Final Response: Make egg &

search.

veggie fried rice!

# 2. Reasoning and Acting

LLMs learn when to act and when to rely on knowledge.

This makes them proactive, not reactive.

# 3. Choosing the Right Framework

#### Key tools to build agents:





# 5. Adding Memory

Traditional LLMs: No memory, static answers.

**Agentic LLMs:** Learn from actions & retain context.

#### Use:





Contextual memory techniques

## 6. Enable Self-Correction

#### Helps agents:



Catch and fix errors

Handle exceptions Improve with feedback

### 4. Connecting to Tools & APIs

#### Agents need access to:

Web searches Databases Software tools Combine LLMs + RPA for complete task automation.





Thinking of building your own agent?

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