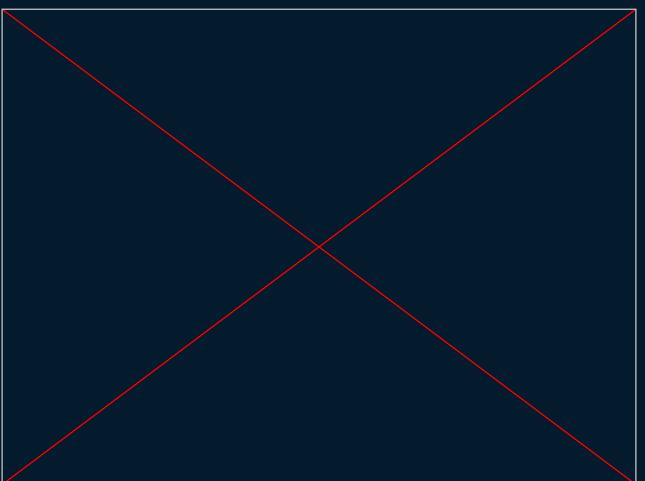
• • • • •

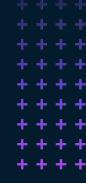


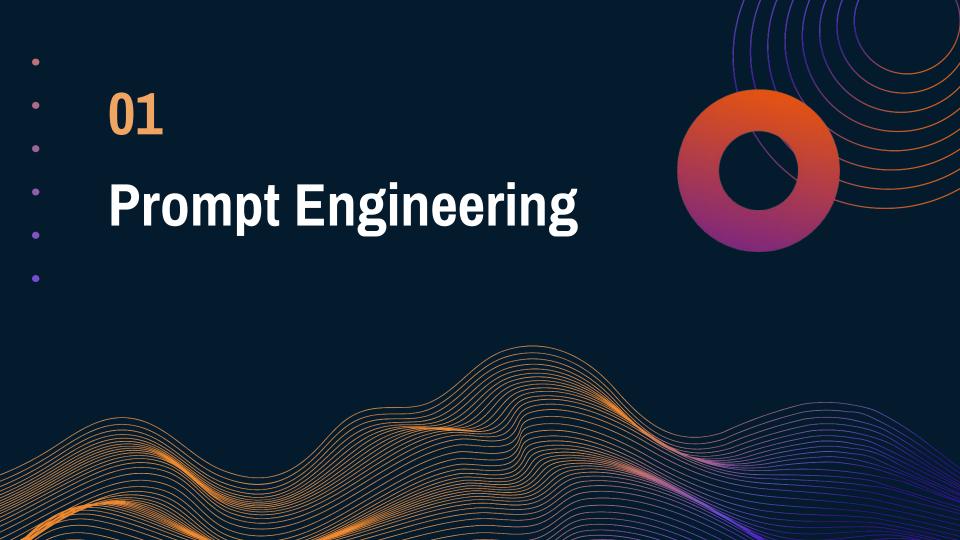
• • • • •



Simulating Agentic AI with Prompt Engineering

IS 365 - 10/13/2025







- Task What do you want done?
- Context What should the model know to do the task?
 - Example What does a good response look like?
 - Persona Who should the model act like/as?
 - Format How should the response be structured?
 - Tone How should the response sound?

What Makes a Good Prompt?

Element	Description & Tips	
Task	Start with an action verb (solve, write, analyze)	
Context	Supply the background or environment	
Example	Illustrate what "good" looks like	
Persona	Tell the model who it's acting as	
Format	Specify structure & constraints	
Tone	Set voice or style	



Anatomy of a Prompt

- Problem: Meal planning
 - Just asking "weekly foods" or "meal plan" won't give you what you want
- Task:
 - Give me a 1 week plan for meals
- Context + Task:
 - o I am a 180 lb male looking to maintain my weight. Give me a 1 week plan for meals.
- Context + Example + Task:
 - I am a 180 lb male looking to maintain my weight. Here's an example of what one day should contain: Breakfast ... Lunch ... Snack ... Dinner. Give me a one week plan for meals

Anatomy of a Prompt

- Context + Example + Task + Format:
 - I am a 180 lb male looking to maintain my weight. Here's an example of what one day should contain: Breakfast ... Lunch ... Snack ... Dinner. Give me a one week plan for meals in bullet points
- Persona + Context + Example + Task + Format:
 - Act like a Nutritionist and answer the following. I am a 180 lb male looking to maintain my weight. Here's an example of what one day should contain: Breakfast ... Lunch ...
 Snack ... Dinner. Give me a one week plan for meals in bullet points
- Tone + Persona + Context + Example + Task + Format:
 - In a professional tone: Act like a Nutritionist and answer the following. I am a 180 lb male looking to maintain my weight. Here's an example of what one day should contain: Breakfast ... Lunch ... Snack ... Dinner. Give me a one week plan for meals in bullet points

How to Keep Your Prompts Grounded



- Use a grounding document or dataset
- Explicitly limit the model's knowledge scope
- Ask for quotes or source references

02

Live Demo

Building a Customer Experience Analysis agent



The Concept

- We'll simulate a Customer Experience Analysis agent
- Grounding Document:
 - Extracted Customer Reviews
- Tool:
 - ChatGPT (Web UI)
- Objective:
 - Extract top complaints
 - Reformat these insights for stakeholders

Layering Prompt Elements

- Iteration 1: Task
- Iteration 2: Add Persona and Format
- Iteration 3: Adding Tone and Context

Iteration 1 - Task

Summarize the top three most common complaints from the AirPods Pro 3 review digest.

Iteration 2 - Persona + Task + Format

You are a customer experience analyst. Based only on the uploaded AirPods Pro 3 review digest, return three bullet points summarizing the most common customer complaints. Include one short supporting quote under each bullet.

Iteration 3 - Persona + Context + Task + Format + Tone

You are a customer experience analyst preparing a summary for the product team. Using only the uploaded AirPods Pro 3 review digest, write a one-paragraph internal memo summarizing the top user complaints. Keep the tone neutral, professional, and focused on actionable insight.



Two Layers of Intelligence

Reasoning Layer - Agents

Goal-driven systems that plan and take actions

× × ×

Execution Layer - Workflows

Defined, rule-based processes for repetition and consistency

Key Differences

Aspect	Al Workflows	Al Agents
Control Flow	Predefined, explicit	Dynamic, autonomous
Decision Making	Hard-coded logic	LLM-driven reasoning
Tool Usage	Linear, orchestrated	Self-selected by agent
Adaptability	N/A; Fixed path	Flexible execution
Complexity	Lower, more predictable	Higher, more capable
Use Cases	Well-defined tasks	Open-ended problems





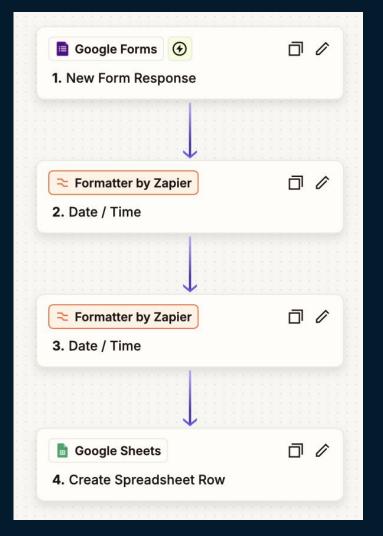
Agentic Al Depends on Tools

- Just like us, Agents need access to tools:
 - Retrieval, summarization, communication, memory, etc.
- Tools enable capability
 - Building tools = Building agency



Workflows + Agents

- Workflows establish execution structures
 - Trigger -> Process -> Output
 - Provides reliability, traceability, and clarity
- These form the base layer that Agents plug into
 - When LLMs join the loop, systems think instead of just running



Agentic Tool View Slack Integration Customer Experience Analysis Agent Transfer to Database **Sentiment Analysis** Tool Tool **Review Summary Tool**



Two Layers of Intelligence

Reasoning Layer - Agents

Goal-driven systems that plan and take actions

× × ×

Execution Layer - Workflows

Defined, rule-based processes for repetition and consistency

04
Zapier Demo
Applying Al Workflows





What You'll Be Doing

- 1. Pick a role
- 2. Choose a **knowledge source**
- 3. **Write + Refine** prompts to simulate agentic behavior
- 4. **Observe** outputs and **iterate**
- 5. Build a system with clear inputs and outputs

CREDITS: This presentation template was created by **Slidesgo**, and includes icons by **Flaticon**, and infographics & images by **Freepik**

Please keep this slide for attribution