Agentic AI in Action: Deep Research, Claude Code, and Agent Mode

Demo of AI Autonomy and Research

- Showcased AI running deep research, reviewing 12+ sources
- Noted the "autonomous" feel—AI working independently in the background
- Ran multiple tasks in parallel: research, image generation, and agent mode
- Emphasized the sense of an assistant actively working on user's behalf

Image Generation Task

- Prompted AI to draw "how many rainbows it takes to jump from Hawaii to 17"
- AI generated two literal images based on the prompt
- Mentioned prior model (DALL-E 3) was more imaginative
- Discussed familiarity with image generation tools like GPT, Midjourney

Restaurant Search with Agent Mode

- Used agent mode to find NYC restaurant for four at 9pm, serving British food with banoffee pie
- AI searched web, handled browser cookies, and navigated reservation systems
- Found Jones Wood Foundry, verified menu and reservation availability
- Provided address, reservation link, and offered to book under user's name
- Highlighted the assistant-like quality of the AI handling real-world tasks

Commercial Research Report Demo

- AI generated a commercial report in markdown format
- Focused on tech companies with greatest commercial success: OpenAI, Anthropic, Midjourney, Runway, 11 Labs, Microsoft Copilot, GitHub Copilot
- Noted omission of legal/business use cases (e.g., Harvey, Nebula)
- Report included sources, links, and comprehensive summary
- Described this as a prime example of agentic deep research

Claude Code Demo

- Demonstrated use of Claude code within the Cursa platform
- Tasked Claude to read two Jupyter notebooks (Day One and Day Two) and write a Python module solution for Day Two's challenge
- Solution used Ollama instead of OpenAI for website summarization
- Claude code wrote and executed Solution.py, which worked as expected
- Summarized a website using local Llama 3.2 model
- Highlighted Claude's ability to understand context, read files, and generate runnable code instantly
- Noted the practical, time-saving benefit for developers

General Impressions

- AI tools shown as increasingly autonomous and capable
- Emphasis on real-world utility: research, creative tasks, bookings, coding
- Demonstrations aimed to show how AI can work independently and efficiently on complex tasks