

AI Agents in Action

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Demo: <https://slides.javatask.dev>

Slides: <https://slides.javatask.dev/ai.pdf>



About Your Speaker

- ▶ Principal Systems Architect: Cloud Intelligent Platforms at Belden Inc.
- ▶ Ph.D. in Computer Science
- ▶ 25 years in industry

AWS Community Builder

AWS 10x Certified

Passionate about:

- ▶ Solving Complex Problems
- ▶ Family (proud father of two)
- ▶ Cycling

Important Note on AI Terminology

DISCLAIMER

This presentation is the author's personal opinion and does not necessarily reflect the views of a company with which the author may be affiliated.

- ⚠️ AI systems are computational tools, not living entities
- ⚠️ We use human-like terms to build mental models
- ⚠️ Terms like "intern" or "learning" are metaphors



The Story Begins...

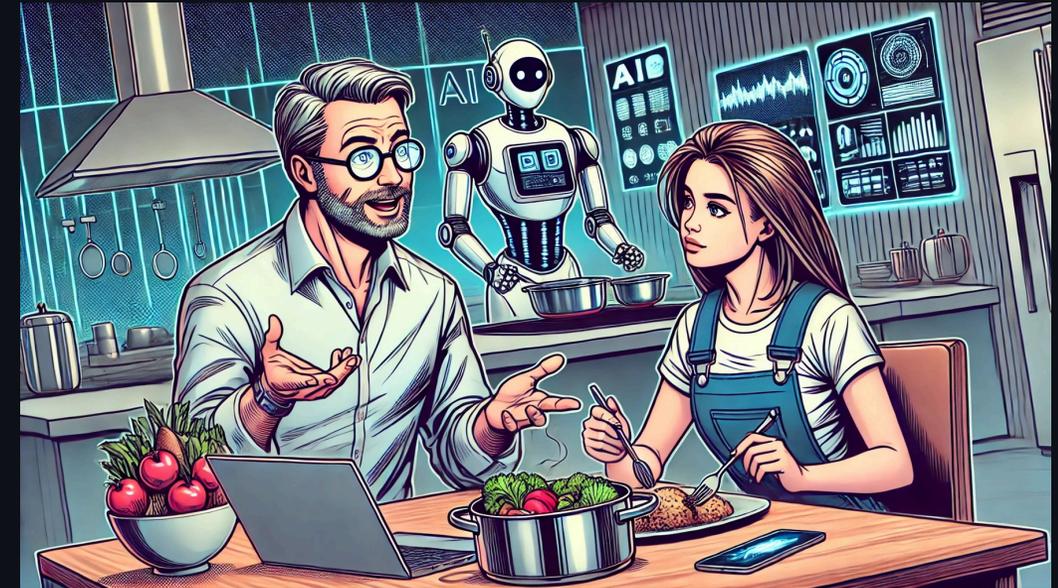
A Friday Evening Conversation

 **Daughter**

CS student, AWS
AI Practitioner
candidate

 **Father**

CEO of mid-
sized bakery



"How can AI transform our bakery
business?"

Understanding AI Concepts

AI Concept	Business Metaphor
 LLM	New Intern
 Prompt Engineering	Job Instructions
 RAG	Access to Company Library
 Fine-tuning	Specialized Training in a University
 AI Agents	Equipped Workspace

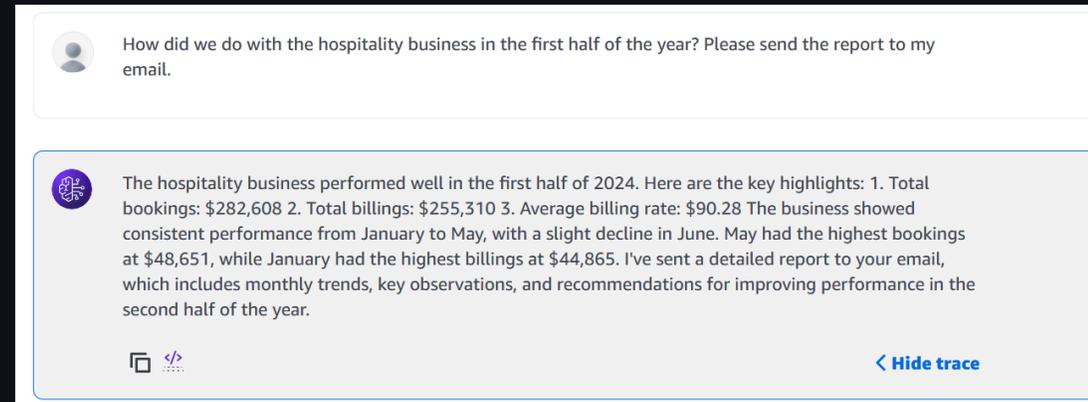


The Business Challenge

- **Monday, 8:00 AM**
Surprise email from CEO
- **Monday, 8:15 AM**
Hospitality conference invitation received
- **Monday, 9:00 AM**
Urgent need: Quick financial analysis for presentation

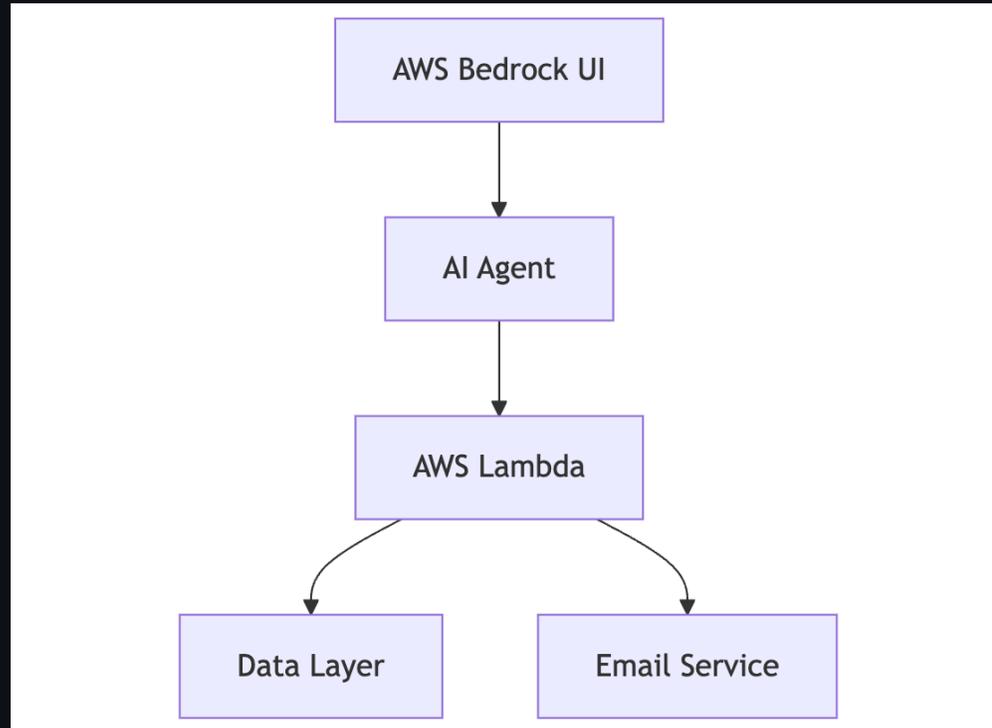
Solution: AI Financial Assistant

Deploy an AI agent to analyze financial data and prepare presentation-ready insights



The screenshot shows a chat interface with a user query and an AI response. The user query is: "How did we do with the hospitality business in the first half of the year? Please send the report to my email." The AI response is: "The hospitality business performed well in the first half of 2024. Here are the key highlights: 1. Total bookings: \$282,608 2. Total billings: \$255,310 3. Average billing rate: \$90.28 The business showed consistent performance from January to May, with a slight decline in June. May had the highest bookings at \$48,651, while January had the highest billings at \$44,865. I've sent a detailed report to your email, which includes monthly trends, key observations, and recommendations for improving performance in the second half of the year." The response includes a small icon of a document with a checkmark and a link to "Hide trace".

Solution Architecture



 AWS Bedrock

 AWS Lambda

Technical Implementation

Setup demo ceo-fin-advisor AI Agent

- ▶ `git clone https://github.com/javatask/ai-agent-ceo-fin-advisor.git`
- ▶ `aws sso login`
- ▶ `./one-click.sh`



Key Takeaways



AI Agents: Practical Business Tools

Implement AI solutions that solve real business problems with measurable ROI



Implementation: Straightforward with AWS

Leverage AWS Bedrock, Lambda, and other services for rapid deployment



Next Steps

Start small, focus on specific use cases, iterate and improve based on feedback

If you have any questions, feedback, or comments, please feel free to reach out to me.

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