

Leading AI Business Solutions
Prof. Thomas Gilbert

Sketch an Agentic AI Workflow
Homework 5

The goal of this homework is to sketch in as much detail as possible a multi-step workflow that an AI agent (aka an LLM that uses tools and RAG in a loop to achieve a goal) would plan and execute to solve a narrow business problem. You can expand on your answers to homework 3 and/or 4 or build something new. This cannot be a simple chatbot and it also cannot be about your personal life. You are a product manager aiming to demonstrate to your manager that an idea you have to resolve/automate a customer problem can work.

- 1) What is the (narrow) business problem you are trying to solve? Explain the ideal input-output pair of the agent.
- 2) What tools and RAG does your agent need access to? What information will the agent obtain from each tool or RAG to add to the LLM's context? What actions will the agent take from each tool?
- 3) How will you measure success (metric)?