

Agenda of the Session

- 1. Learn to build a RAG application for Q&A on PDF documents (policies, invoices, contracts).
- 2. Explore the smolagents package and its agentic design patterns with components like Tools, Prompts and Agent formation.
- 3. Build an Agentic RAG system with smolagents for programmatic, dynamic claims processing.
- 4. Compare Agentic RAG vs. Traditional RAG for complex tasks like claims adjudication.
- 5. Hands-on: Create an end-to-end Agentic RAG pipeline for claims processing.

Structure of the Session

Duration (mins)	Topic	Details
5	Welcome and Introduction	<ul style="list-style-type: none">This section is to be clear on the expectations from the session.
100	Notebook AgenticRAG using Smolagents	<ul style="list-style-type: none">Set the "openai_api_key" as environment variableStructure and manage data for the claims workflow.Develop and configure tools to support specific tasks.Set up prompt templates to guide task planning and responses.Initialize the agent to orchestrate tools and workflow dynamically.Execute the system and evaluate outputs for accuracy and efficiency.
10	Final Q&A	<ul style="list-style-type: none">This section is to clear any follow-up questions or questions that were parked to be answered toward the end
5	Session Summary	<ul style="list-style-type: none">Pick up a pen and paper - spend the last 5 minutes of the session of drawing up a mind-map as the mentor summarizes the learnings from the session

- Join the session 5 minutes early to ensure a timely start.
- Come well-prepared by watching all videos of **"Agentic AI"** from **"Week 6: Introduction to Agentic AI - Video Content"**
- Revisit and attempt the practice quizzes. If you face challenges with the quizzes, review and re-attempt them post-session to reinforce your understanding.

Remember!! **"Build. Break. Better. — progress through iteration."**

Happy Learning!



