

At a Glance

Learn to build AI agents using AG2 (AutoGen) multi-agent framework. In this project you will create AutoMed Multi LLM Agent for health treatment recommendations. It leverages Large Language Models (LLMs) to analyze user symptoms, suggest treatments, and access medical databases for accurate insights. You will build multiple AI agents that interact with each other, collaborate on complex medical queries, and automate healthcare assistance. These agents can coordinate tasks, fetch real-time medical data, and provide context-aware responses for better decision-making.

Imagine a world where patients can receive **instant, AI-powered medical assistance** anytime, anywhere. Whether it's a late-night health concern, a follow-up on medication, or general health advice, **AutoMed** steps in as your intelligent virtual healthcare assistant. No more long waiting times, delayed responses, or unreliable online searches—AutoMed provides **real-time, accurate, and personalized** medical support tailored to each individual's needs.

AutoMed is not just an ordinary chatbot—it's a **multi-agent AI system powered by AG2 (AutoGen)**, designed to **simulate expert medical consultation** through intelligent collaboration. Instead of relying on a single AI model, **AutoMed orchestrates multiple specialized agents**, each dedicated to a specific task, ensuring **comprehensive, accurate, and real-time** medical guidance. With its **adaptive intelligence and multi-agent communication**, AutoMed delivers **human-like, context-aware conversations** that go beyond basic symptom checkers.

Disclaimer: This guided project is designed to introduce learners to AG2 (AutoGen). The medical advice provided should not be considered a substitute for professional medical consultation, diagnosis, or treatment. Always seek guidance from a qualified healthcare professional.

A Look at the Project Ahead

After completing this lab you will be able to:

- Learn how **AG2** enables **multi-agent AI systems** for complex workflows.
- Explore how **AG2 integrates with LLMs** like GPT-4 for dynamic AI-driven conversations.
- Implement **agent-to-agent communication** for **intelligent medical decision-making**.
- Develop **multiple AI agents** that interact and collaborate to handle different healthcare tasks.

What You'll Need

The IBM Skills Network Labs environment comes with many things pre-installed (e.g. Docker) to save the hassle of setting everything up. This platform works best with current versions of Chrome, Edge, Firefox, Internet Explorer or Safari.