

## **PROPOSED SOLUTION**

We propose an AI-powered assistant for smart farming advice using Retrieval-Augmented Generation (RAG) integrated with IBM Cloud Lite and IBM Granite. This virtual agent retrieves data from trusted sources such as meteorological APIs, agricultural departments, and market databases to offer localized, real-time guidance in the user's native language. It provides recommendations on crop selection, pest control, soil health, weather updates, and mandi (market) prices. The system bridges the knowledge gap by offering data-driven, contextual answers for better decision-making.