

Kalash AI Agent – Blueprint

■ Purpose & Scope

The Kalash AI Agent automates student assistance and brochure-based query answering for the Kalash Skill Development Club.

Key Goals:

- Provide instant answers related to club activities, courses, and events.
- Retrieve information from the uploaded brochure using vector search.
- Maintain chat memory for conversational flow.
- Use Pinecone + Gemini LLM for accurate and structured responses.

■ Trigger

- A new brochure is uploaded into Google Drive (auto-update knowledgebase).
- A user sends a message in the chat widget (activates AI Agent).

■ Automated Actions

1. Monitor Google Drive for new uploads.
2. Auto-download the brochure file.
3. Extract and split text using text splitter.
4. Generate embeddings using Gemini Embeddings.
5. Insert embeddings into Pinecone Index.
6. On user query, retrieve relevant data from Pinecone.
7. Gemini LLM generates structured answers.

■ Workflow Mapping

1. Knowledgebase Update Flow

Trigger → File Download → Text Split → Embeddings → Pinecone Update.

2. AI Chat Agent Flow

User Message → Chat Trigger → Gemini Model + Memory → Pinecone Search → Final Response.

■ Tools & Integrations

- Google Drive (Brochure Storage)
- Gemini LLM + Embeddings
- Pinecone Vector Store (Knowledgebase)
- n8n Chat Trigger + Memory Handling

■ Outcome

- Automated answering system for Kalash Club.
- 24/7 student query support on any website.
- Dynamic updates based on uploaded brochures.
- Highly accurate structured responses.

Agent reduces manual FAQ answering by over 70% and enables instant, accurate, brochure-based responses