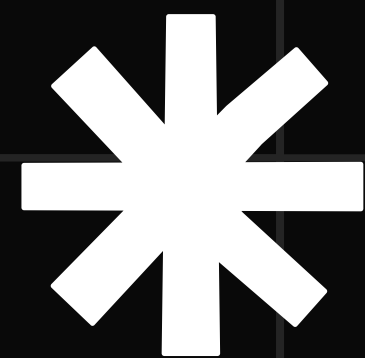


Velov-agent POC

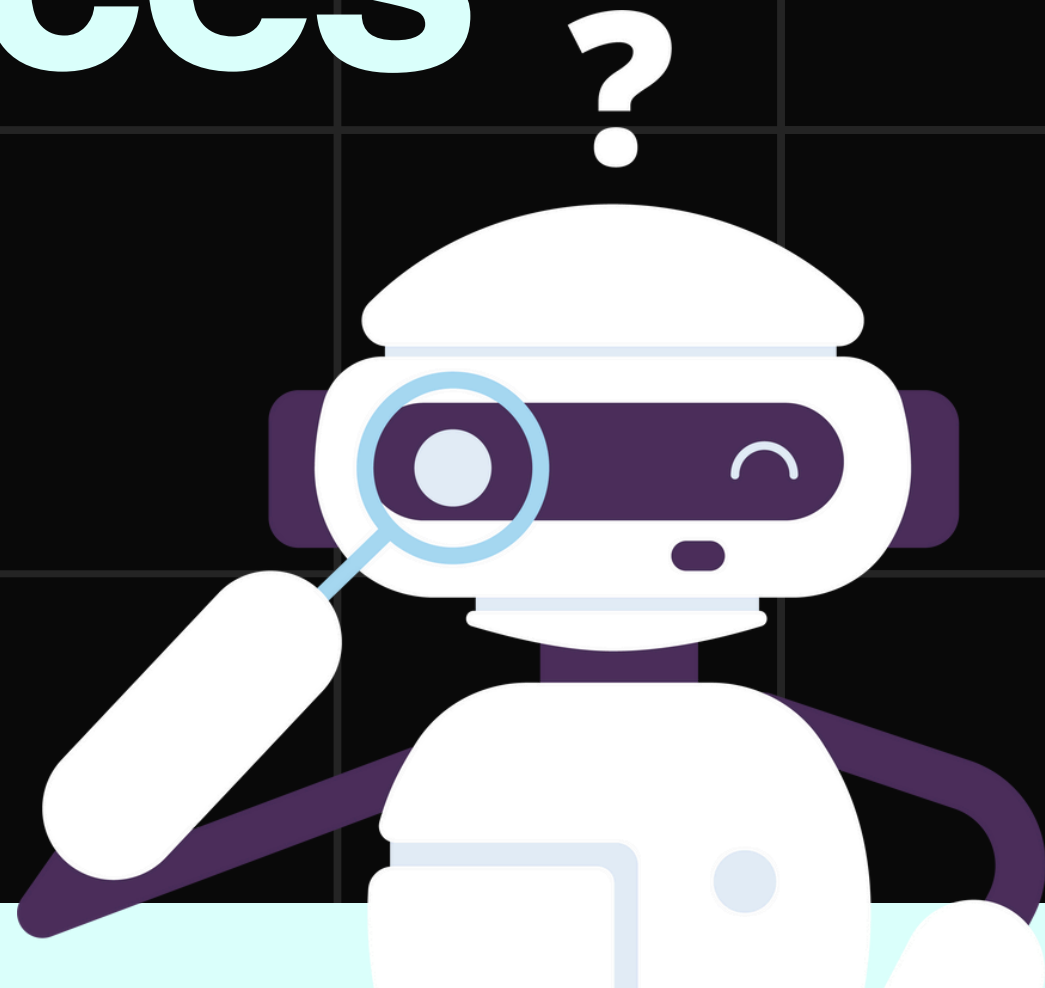
Presented by Amgad KHALIL



**Building a chatbot to assist
Vélo'v users with subscription
info & bike availability.**



Data Sources



abonnemnets(.md)

Subscription Details

Stations (.csv)

Vélo'v stations bike availability

Frameworks & Tools

Mistral AI API

LLM for text processing and generation

Hugging Face

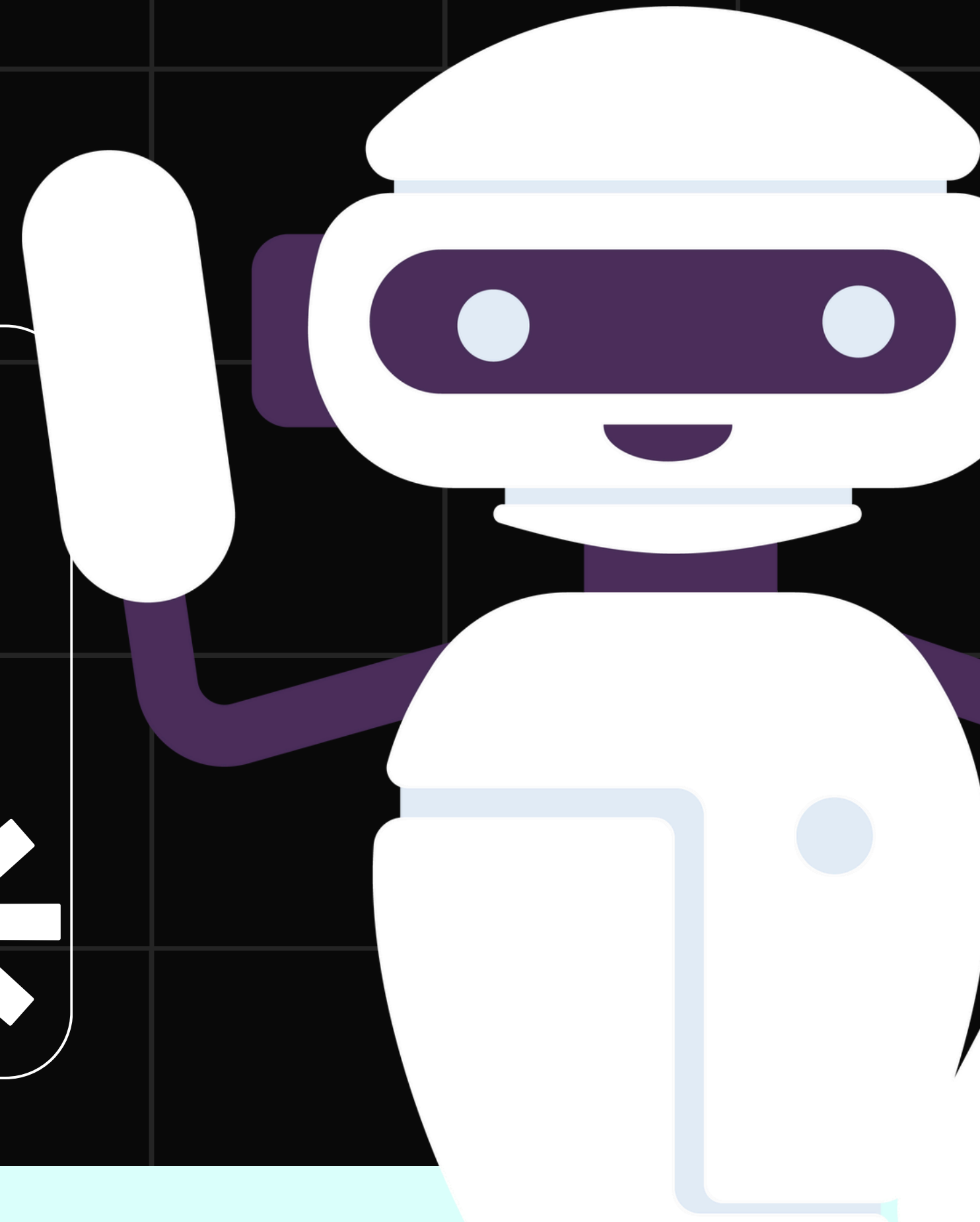
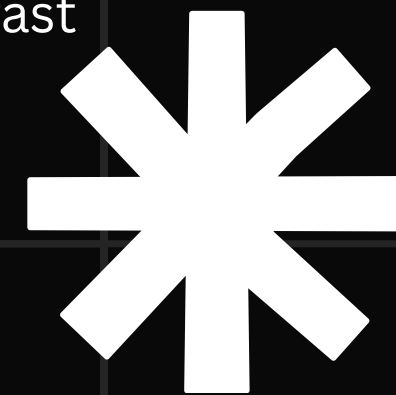
Embeddings

LangChain

Manages retrieval-augmented generation (RAG)

FAISS

Vector database for fast retrieval

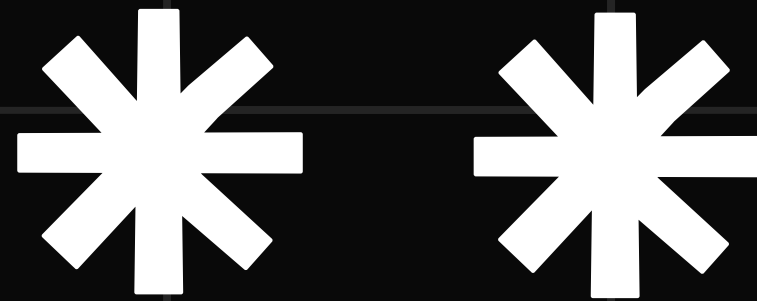


Aggregation Queries

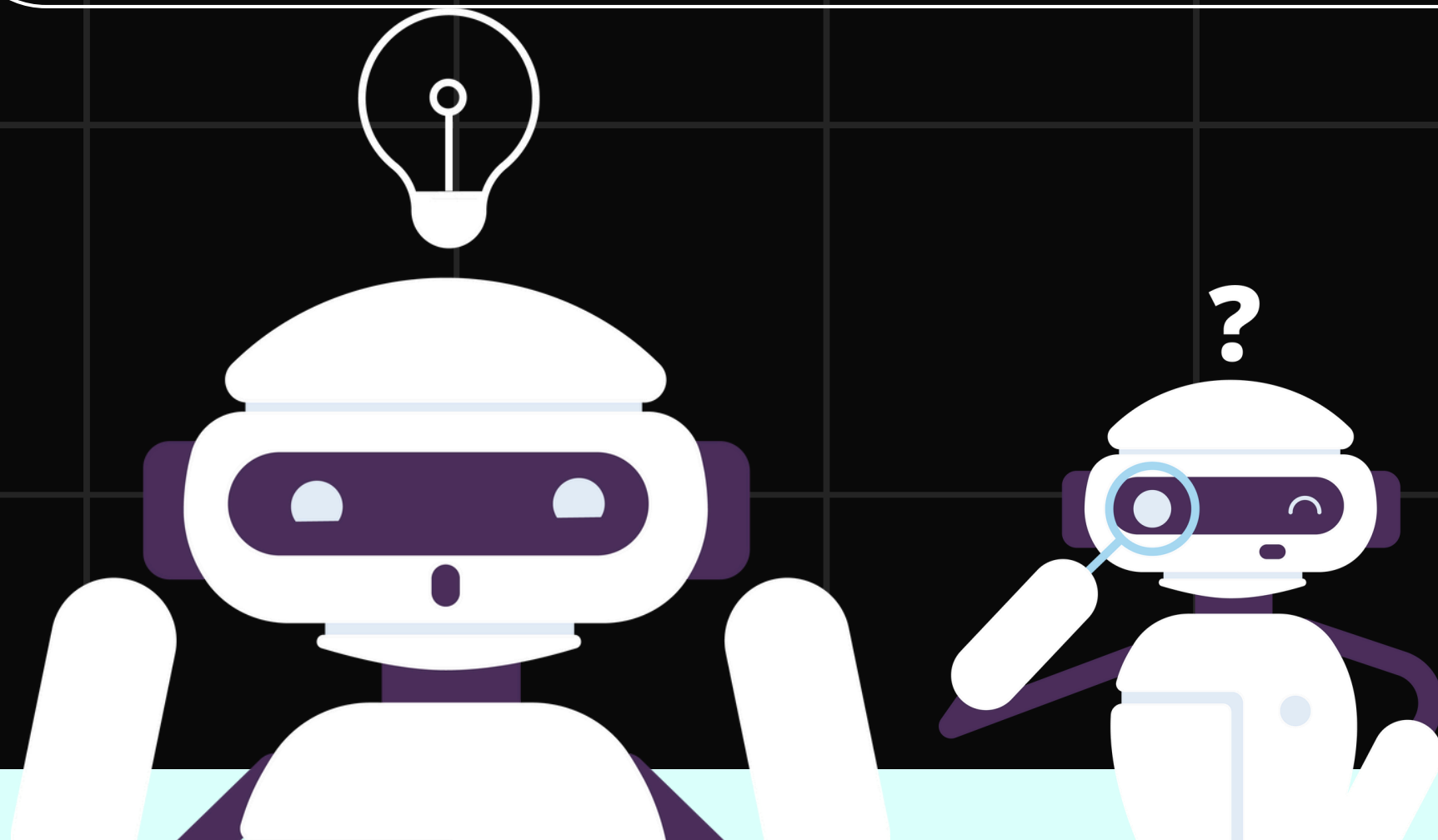
Struggles to answer aggregation questions regarding the stations

Limited Knowledge Base

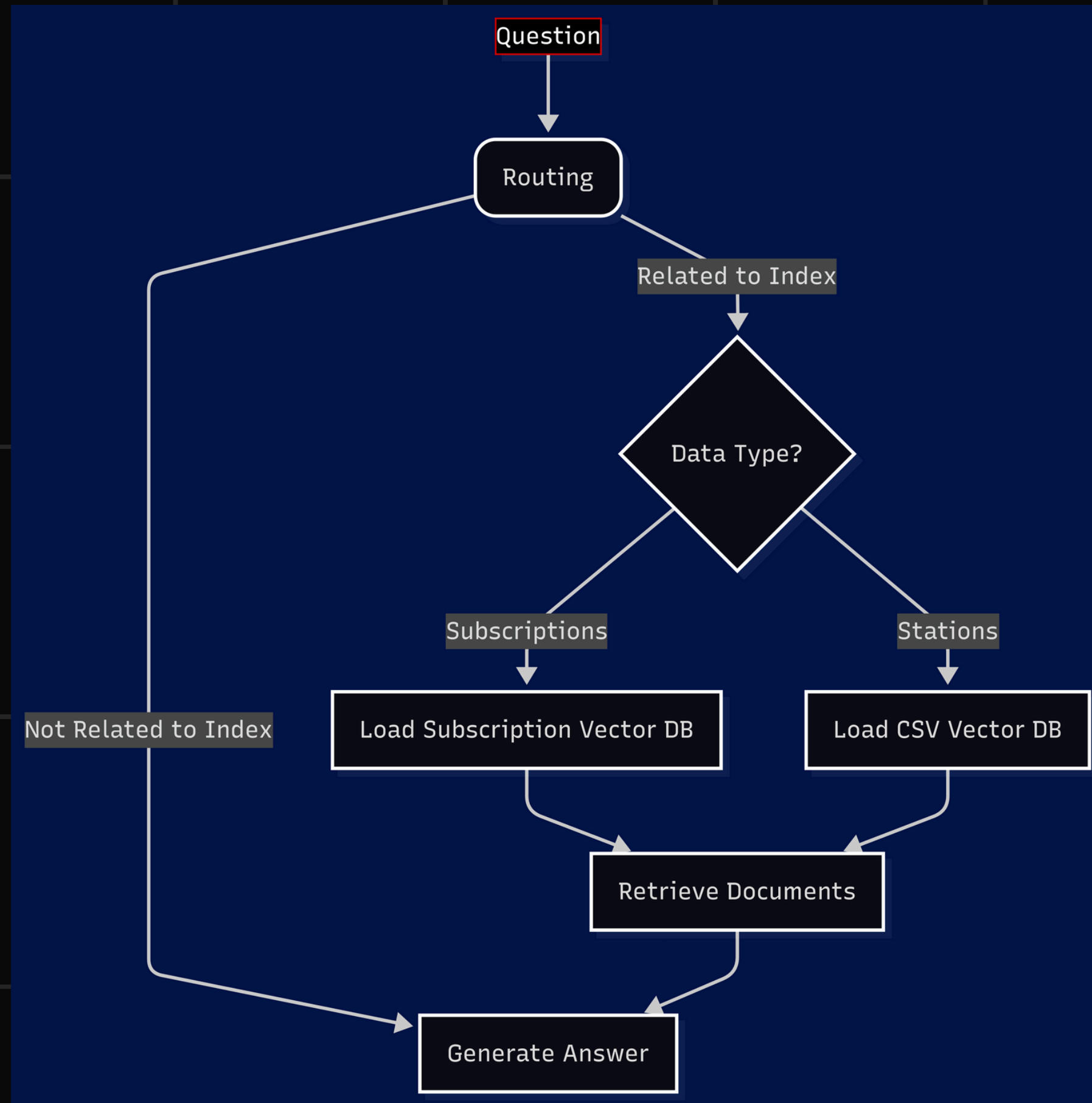
Can result in not being able to answer diverse or unexpected questions.



Current Drawbacks



Work Flow



Agents

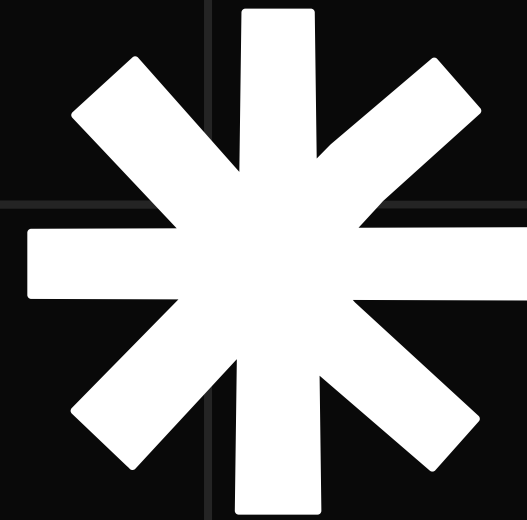
Integrate agents to decide the best tool to use for answering a query.

Multi Tools Handling:

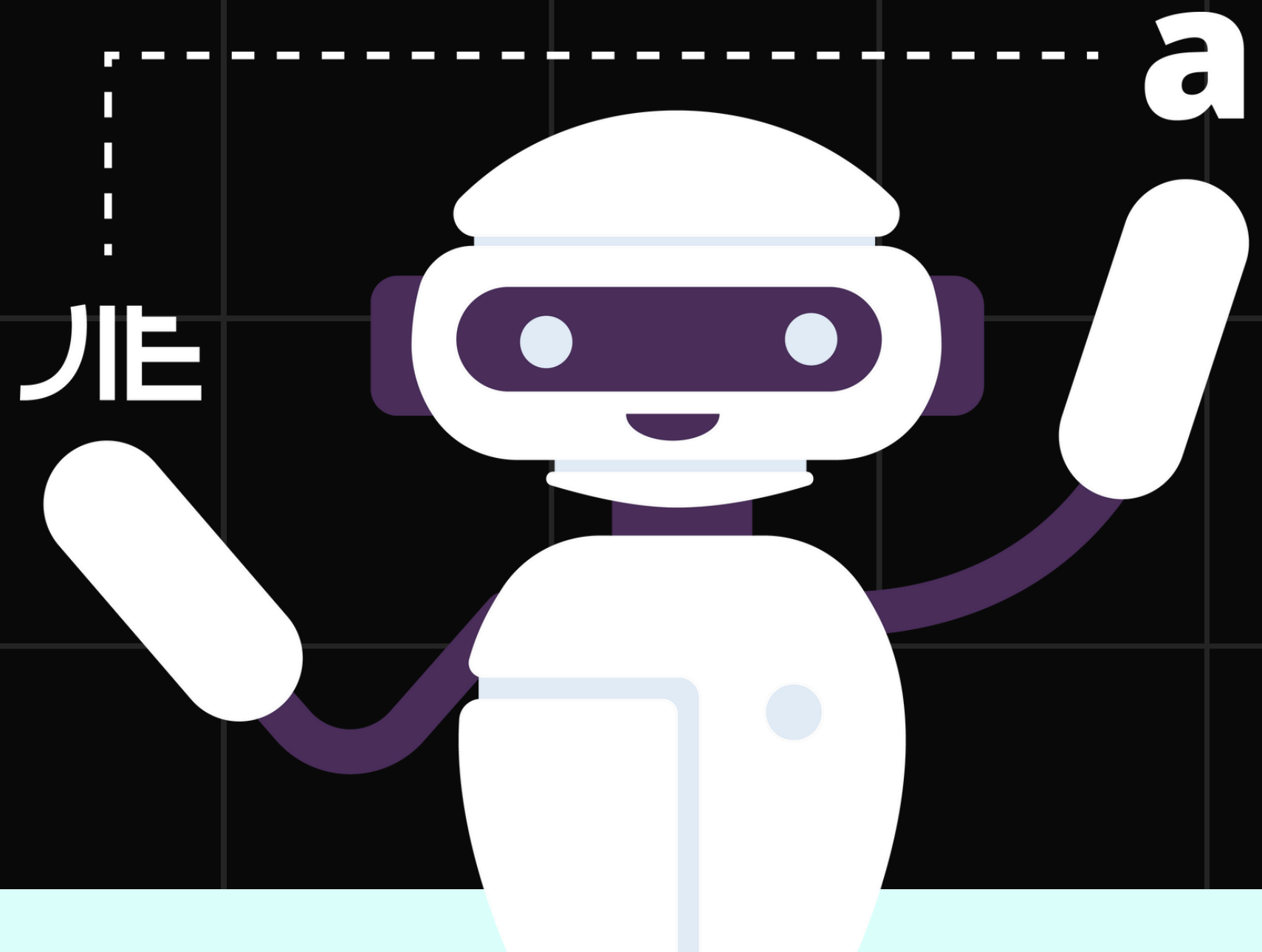
- Local Vector DB
- Live Internet Search
- LLM + SQL Queries

Components to add

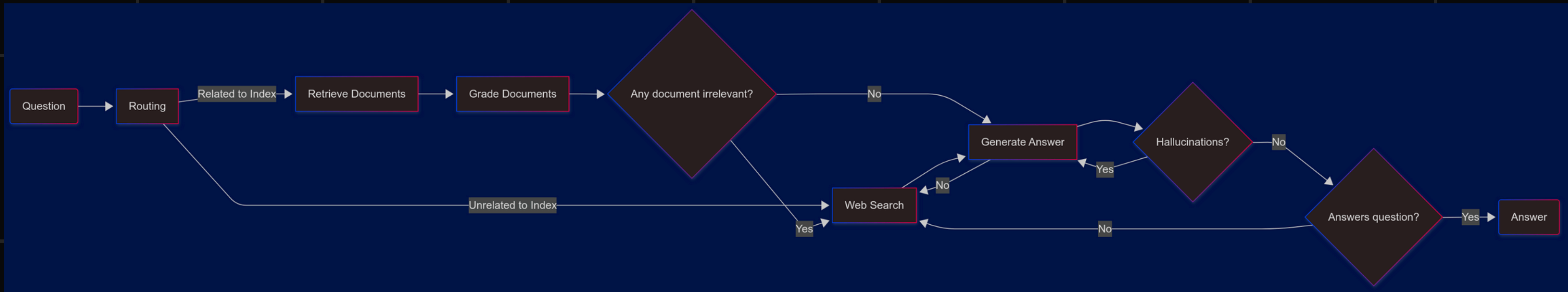
- Relevancy Check
- Hallucinations Check
- Answer Validation



Future Vision



Potential Work Flow



Thankyou

