AVM CONSULTING

Conversational AI for Advanced Insights

Retrieval-Augmented Generation (RAG)

solution tailored for Enterprises

Objectives And **Features**

Dense Vector Embedding

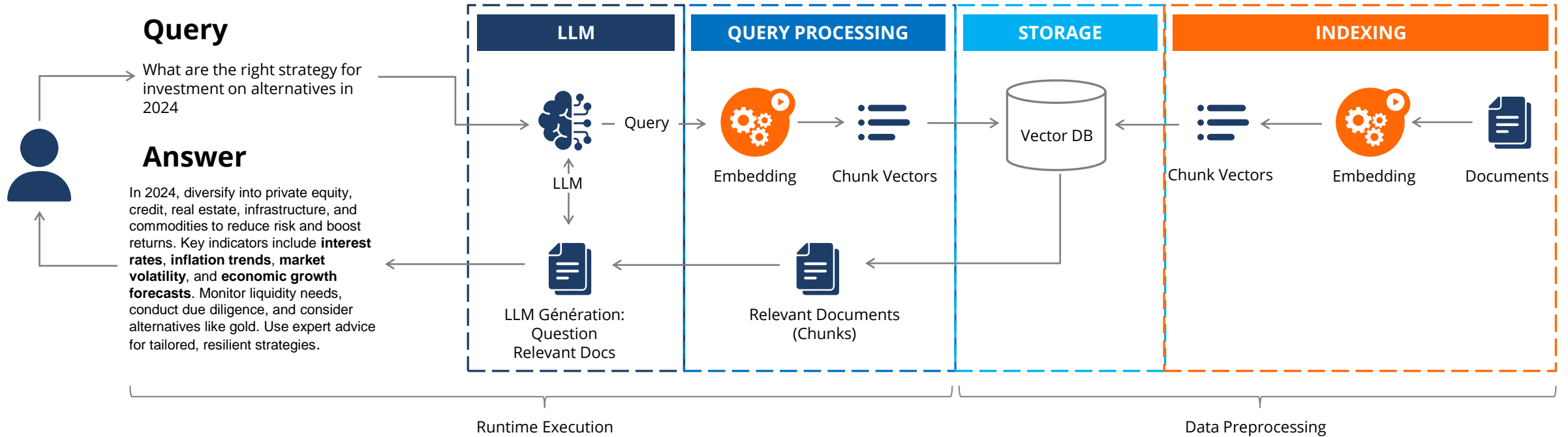Utilizes advanced embedding techniques for precise financial topic retrieval.

Query Classification

Interprets user intent, providing tailored responses from short answers to detailed explanations.

History Retention

Enables contextual understanding by referencing previous search information.

Entity Extraction

Focuses solely on domain specific entity (Ex: Financial, Legal etc.) from queries, ensuring relevant and targeted responses.

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Solution & Business Value

Query
What are the right strategy for investment on alternatives in 2024

Answer
In 2024, diversify into private equity, credit, real estate, infrastructure, and commodities to reduce risk and boost returns. Key indicators include **interest rates**, **inflation trends**, **market volatility**, and **economic growth forecasts**. Monitor liquidity needs, conduct due diligence, and consider alternatives like gold. Use expert advice for tailored, resilient strategies.

LLM	QUERY PROCESSING	STORAGE	INDEXING

Query

LLM

Embedding — Chunk Vectors

Vector DB

Chunk Vectors — Embedding — Documents

LLM Génération: Question Relevant Docs

Relevant Documents (Chunks)

Runtime Execution

Data Preprocessing

Rapid Time to Market
Deliver within 3-6 months, handling thousands of documents and use cases.

High Efficiency
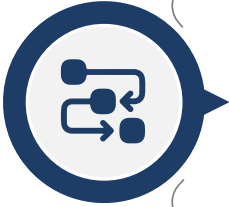Achieve 93% or higher accuracy in automated responses.

Significant ROI
Reduce critical decision-making effort by 60%, enhancing research capabilities for top representatives.

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Solution **Advantages**

Versatile Data Extraction

Extract and utilize data from various sources without flat file storage.

Tailored Agentic Workflow

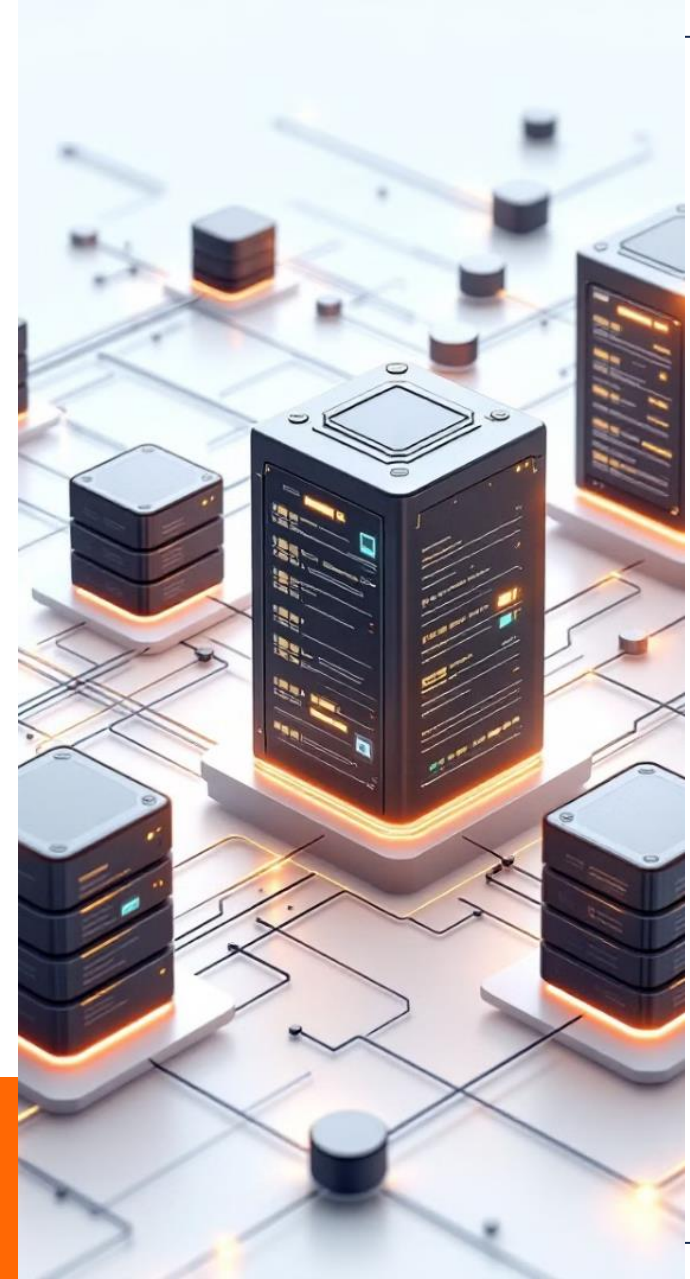Create custom workflows with Prompt Engineering for precise answer generation

Advanced Metadata Techniques

Enhance accuracy with sophisticated metadata extraction and embedding storage methods.

Seamless Integration

Connect effortlessly with chatbots or as an API with other applications.

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Current Scope And **Technology**

Feature	Implementation
Feature	Implementation
Query Classification	Proprietary formula with content filter and LLM models (BERT & BART)
Document Support	PDF, Web data via API
Vector Database	Weaviate, Pincone
LLM Integration	GPT-3.5,4 Claude 3.0,3.5

Key Assumptions

Cloud Infrastructure

Enterprises customer will utilize AWS Cloud with Sagemaker, Amazon Bedrock for LLM provisioning or Azure OpenAI

Data Security

Internal data deployment with encryption for privacy and security compliance.

Document Management

Thousands of internal documents in Confluence require organization for AI system integration.

Real-time Analytics

Various sources of data stored in excel or DB need Real time analytics

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