

# Genie



## Generalized Engine for Natural Inquiry and Expression

### Straightforward Answers to Hard Questions

Genie™ (Generalized Engine for Natural Inquiry and Expression) is an AI assistant that helps users with various tasks, including answering questions, providing database insights, recommending actions based on data, and processing natural language queries. It is a multi-page Streamlit application intended as an assistant for data analysis and interaction.

Genie addresses the challenge of complex data analysis and interaction by providing a natural language interface to databases and data sources. It makes data insights accessible to non-technical users, speeds up decision-making processes, and serves as a flexible, AI-powered assistant for various data-related tasks.

#### Benefits

##### **Reduce Costs**

Turn hours of work into seconds, for fast decisions.

##### **Data-Driven Decision Support**

Live insights for timely, informed decisions.

##### **Customizable Access**

Tailored to meet the unique needs of business teams.

##### **Automatic Context Generation**

Works to understand data it has access to, providing better answers by referencing many sources.

# Genie is Ideal For

**Cross functional workers in data intensive industries with complex processes:** manufacturing, energy, transportation, financial services, telecommunications, public sectors & smart cities.

**Cross functional workers in complex, asset-intensive industries:** advanced manufacturing, heavy industry, and high-precision processes such as aerospace, automotive, oil and gas.

## Core Capabilities

### Natural Language Processing

Supports communication using everyday language.

### Comprehensive Dashboards

Visualize metrics & trends to drive business outcomes.

### Multi-Language Support

Interact in your preferred language.

### Self Correcting

Corrects its own errors and user mistakes, such as spelling or missing details.

### Understanding

Understands your data, its relationships, and user intent, making it highly flexible for any type of information.

### Multi-Agent Workflows

More accurate, relevant results from a custom agentic framework.

## Differentiators

1

Unparalleled accuracy of RAG operations against complex images containing graphs, diagrams, and operation guidelines.

2

Preservation of procedure-based processes and operations by leveraging a custom XML-optimized vector database.

3

Transparency and explainability provides end-to-end visibility of AI answers, virtually eliminating hallucinations.

4

Full understanding of your data, enabled by automatic context generation.

5

Self-correcting system allows the user to get answers to complex questions which may require data retrieval from multiple sources and work around unexpected results during research and analysis.



# Tech Specs

## Frontend

Streamlit multi-page application

## Backend

Python; Deployed on Amazon ECS, AWS Fargate

## AI Models

Anthropic Claude via Amazon Bedrock

## Voice Technology

Whisper-1, Amazon Polly

## Cloud Integration

AWS

## Version Control

Git, Amazon CodePipeline

## How to License

### Purchase Price

\$50,000

### Delivery Time

Two Weeks

### Contact

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# About Milvian Group

Industrial, commercial, and public sector customers seeking to enhance situational awareness turn to Milvian Group for data-driven solutions that improve operational decision-making and costs reductions. As an applied technology company, Milvian Group recommends, integrates, and implements top-tier hardware and cloud-native services, including IoT, data analytics, and AI technologies.

Milvian Group solutions are designed to solve business challenges, improve work conditions, and achieve sustainability goals by increasing uptime, enhancing machine availability, improving safety, and reducing resource consumption. The "Milvian Mark" represents our commitment to setting the gold standard for service and support in the tech industry.