

Natural Language to SQL Agent Chatflow

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The Problem: Data Access Bottlenecks

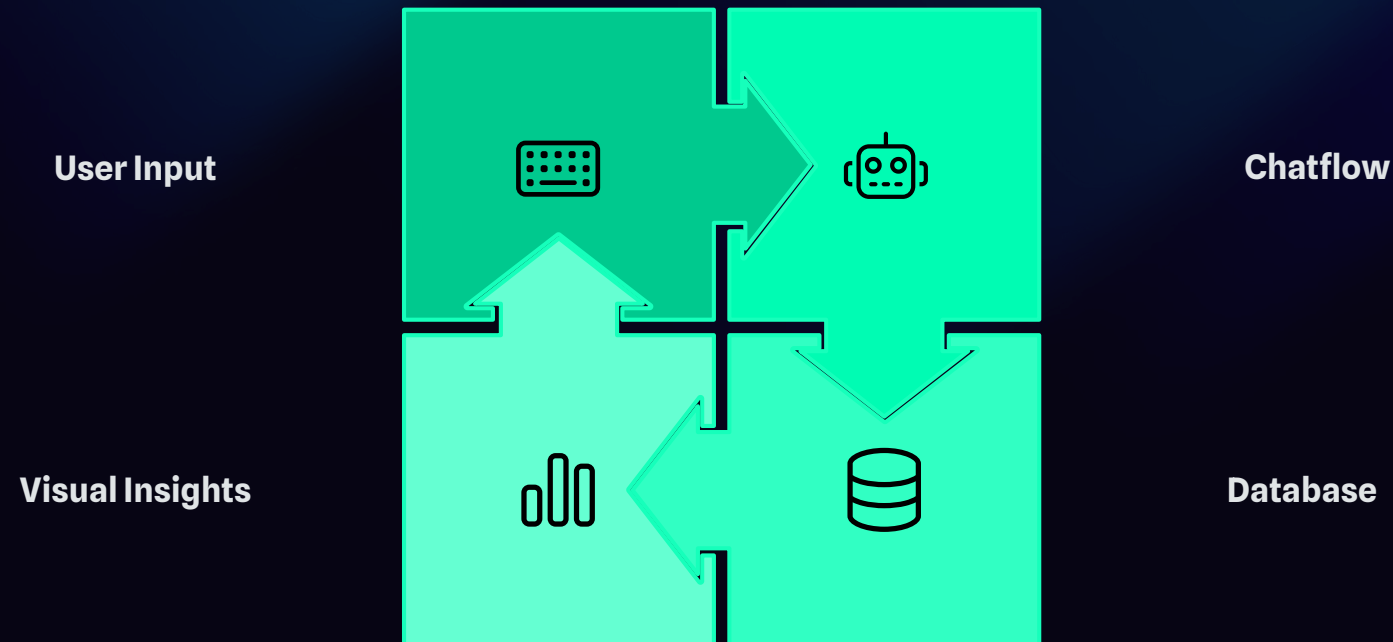
In today's fast-paced business environment, timely access to data is critical. However, many organizations face significant hurdles:

- **Long queues for Business Intelligence (BI) teams:** Requests pile up, creating backlogs and frustrating stakeholders.
- **Non-technical staff can't query databases directly:** A major barrier to self-service analytics and broader data democratization.
- **Delays lead to slower, less informed decisions:** Missed opportunities and reduced agility.



Our Solution: NL-SQL-Chatflow

Chatflow agent is designed to empower all users, regardless of technical expertise, to interact with their databases using natural language. It seamlessly translates your questions into actionable SQL queries and presents the results in clear human readable text, visual formats.



Ask any question, get insights instantly.

Robust Technical Architecture

Our solution is built on a modern, flexible architecture designed for scalability and performance, leveraging cutting-edge AI and cloud technologies.



This modular design ensures efficiency and allows for future enhancements.

Live Demo: Natural Language to Insight

Watch BI-GPT in action as it processes natural language queries, generates SQL, and delivers interactive visualizations.

Query & SQL

shai

Workflow Process >

average cost per category

По вашему запросу "средняя стоимость по категориям" я проанализировал предоставленные данные и сформировал ответ.

Данные содержат информацию о средней стоимости по различным категориям. Вот результат в удобном для чтения виде:

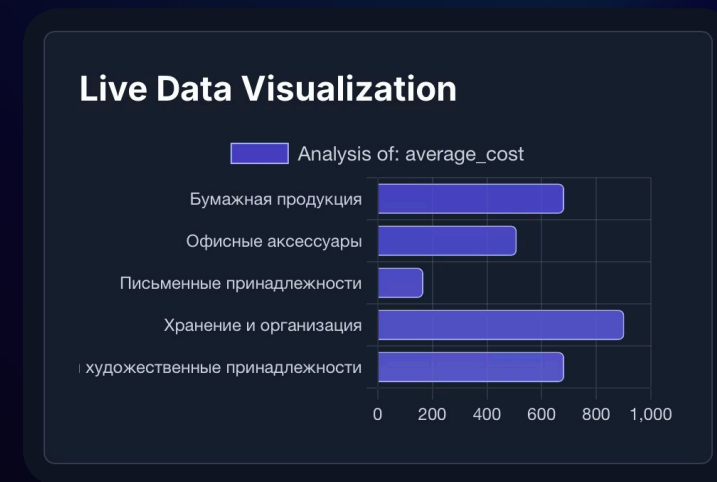
- Бумажная продукция: 682.46
- Офисные аксессуары: 508.72
- Письменные принадлежности: 166.52
- Хранение и организация: 682.53
- Чертёжные и художественные принадлежности: 902.40

Обратите внимание, что категория "Письменные принадлежности" имеет наименьшую среднюю стоимость, а категория "Чертёжные и художественные принадлежности" - наибольшую.

Я высчитал это, проанализировав предоставленные данные в формате JSON, где для каждой категории была указана средняя стоимость. Я структурировал данные по категориям и представил их в виде списка.

Talk to Bot

Visualization



Clarity and speed at your fingertips.

Key Differentiators & Unique Features

There are several components that provide superior performance and user experience.



Custom RAG Model

Leveraging a self-made Hugging Face RAG model for contextual accuracy.



Business Glossary

Enhanced understanding via TXT files for domain-specific terminology.



Interactive Visuals

Dynamic Charts.js visualizations embedded directly into the interface.



Clean Web Interface

Wrapped into an intuitive and user-friendly web application.



Lightweight Infrastructure

Cost-effective and agile with Cloudflare & Ngrok.

Scaling and Evolution

Our vision for it extends beyond the hackathon, with clear phases for growth and integration.

Near Term (Next 3-6 Months)

- **Role-based Access Control:** Ensure data security and compliance with PII.
- **Multi-language Support:** Expand accessibility to global teams.
- **Agent:** Use "Agent" components in SHAI.PRO platform.
- **Multiple:** Add support for multiple queries.

Medium Term (6-12 Months)

- **Integration with BI Tools:** Connect with Power BI, Tableau for advanced dashboards.
- **Model Fine-tuning:** Adapt LLM on company-specific data for even greater accuracy.

We are committed to continuous development to meet evolving user needs.

Meet the Team

Our diverse team brings a blend of expertise in AI, software engineering, and data analytics, united by a passion for innovation.



Software Engineer

Bakhtiyar



Data Engineer

Miras

working @ForteBank



AI Engineer

Arlan



AI Engineer

Bekzat