GRUBGUIDE
HOTEL FINDER

Team: TensorLite

Introduction

- In today's world, we are surrounded by varieties of digital data, and we struggle to find data we want precisely.

- Especially when it comes to choosing the right hotel or restaurant, users are overwhelmed by too many options, irrelevant suggestions and time-consuming searches

- Goal: Develop a a smart, conversational tool that helps users discover hotels or restaurants in any location

- Focus on creating efficient, accessible, and impactful tools to help users find exactly what they need.

The Challenge

01 Users may need to navigate countless filters or listings

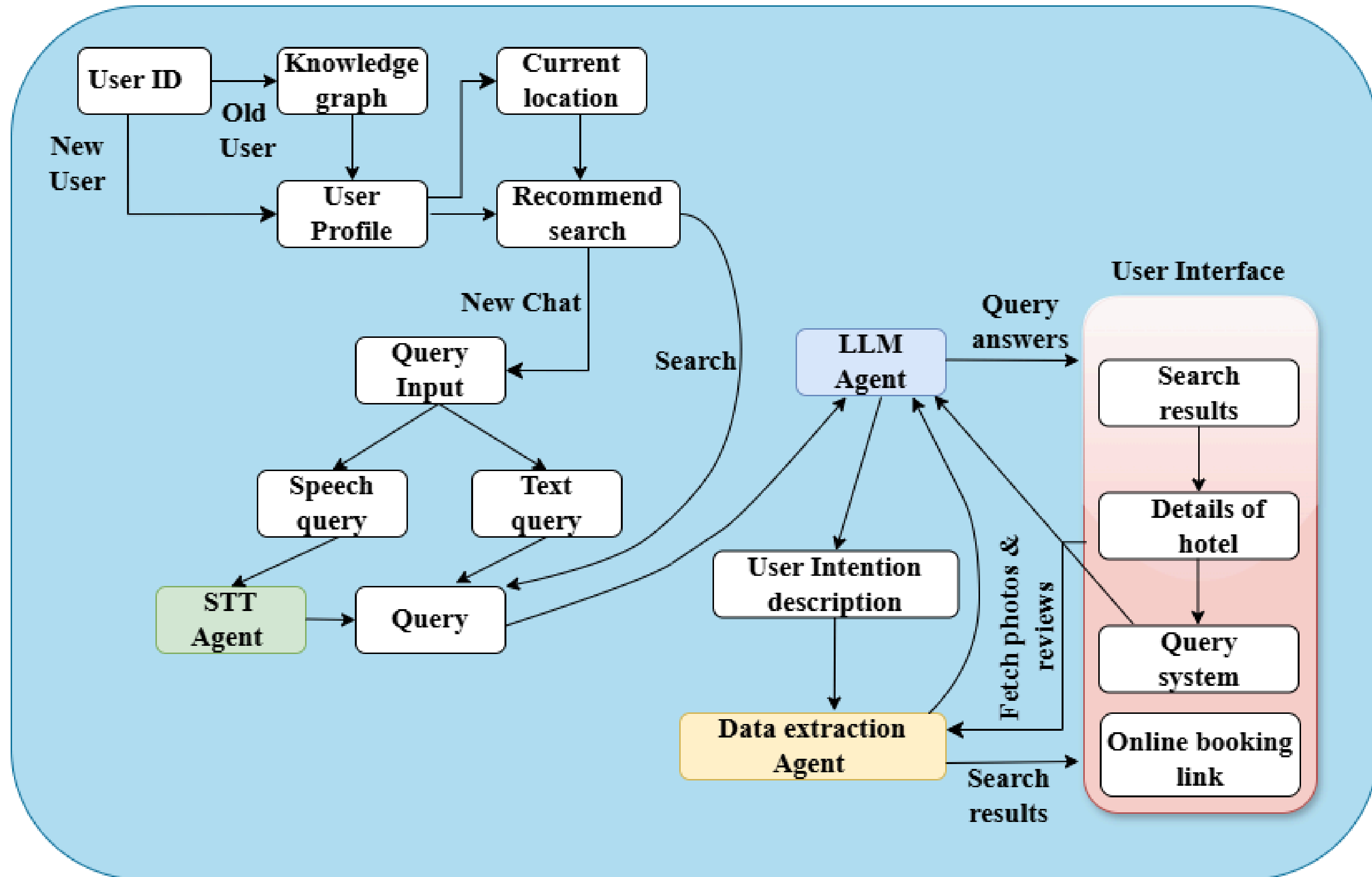**02** Increasing demand for less time consuming tools.

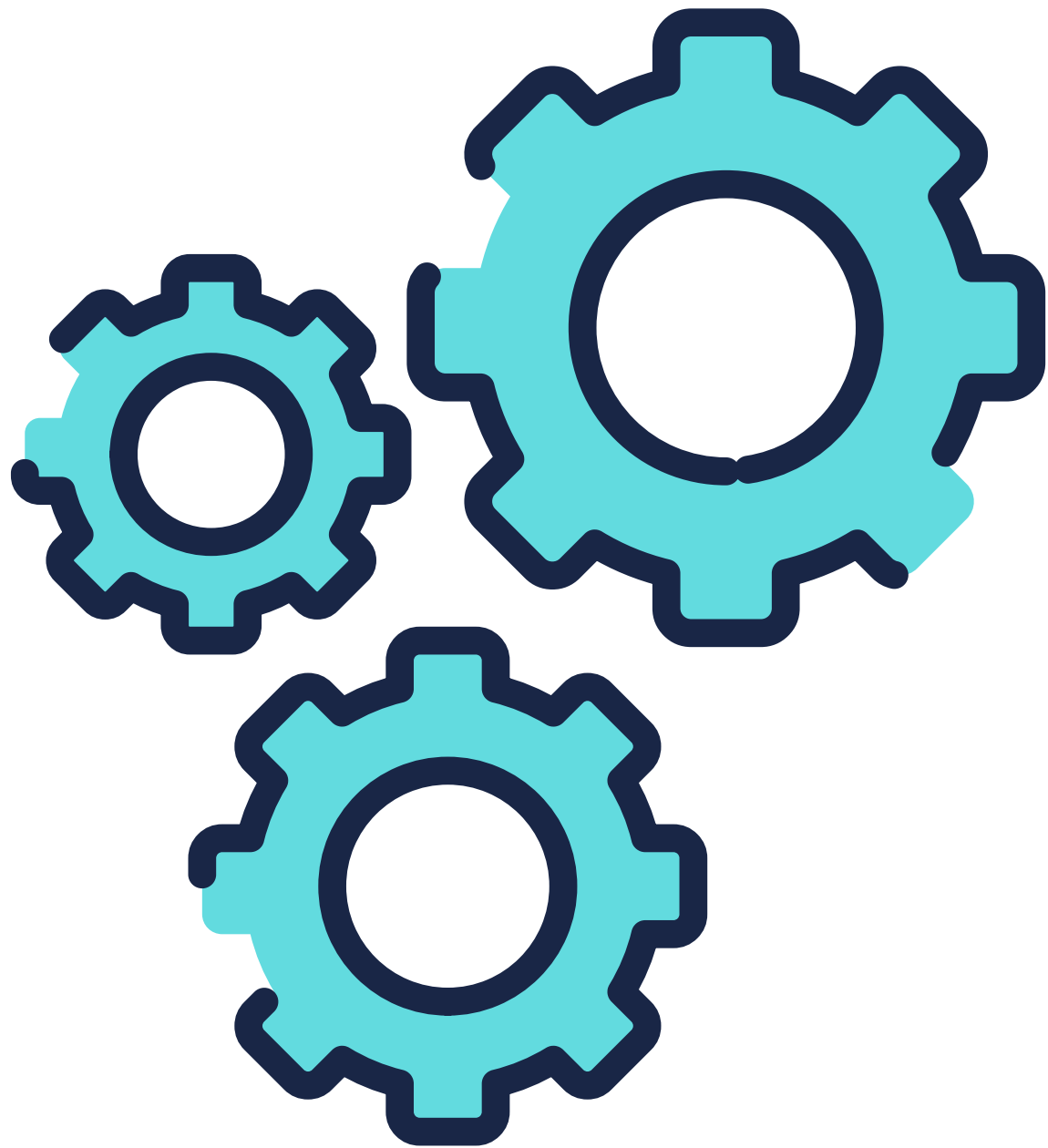**03** Avoid irrelevant suggestions.

What We Built

- Designed a multimodal agentic AI tool that understands user queries in natural language.

- Identifies user intention (e.g., cuisine + location) from text and speech query.

- Automatically fetches accurate, filtered results.

- Enhances user experience with visuals, reviews & preferences with option to query about the hotel.

- Auto-suggest search query based on previous preference.
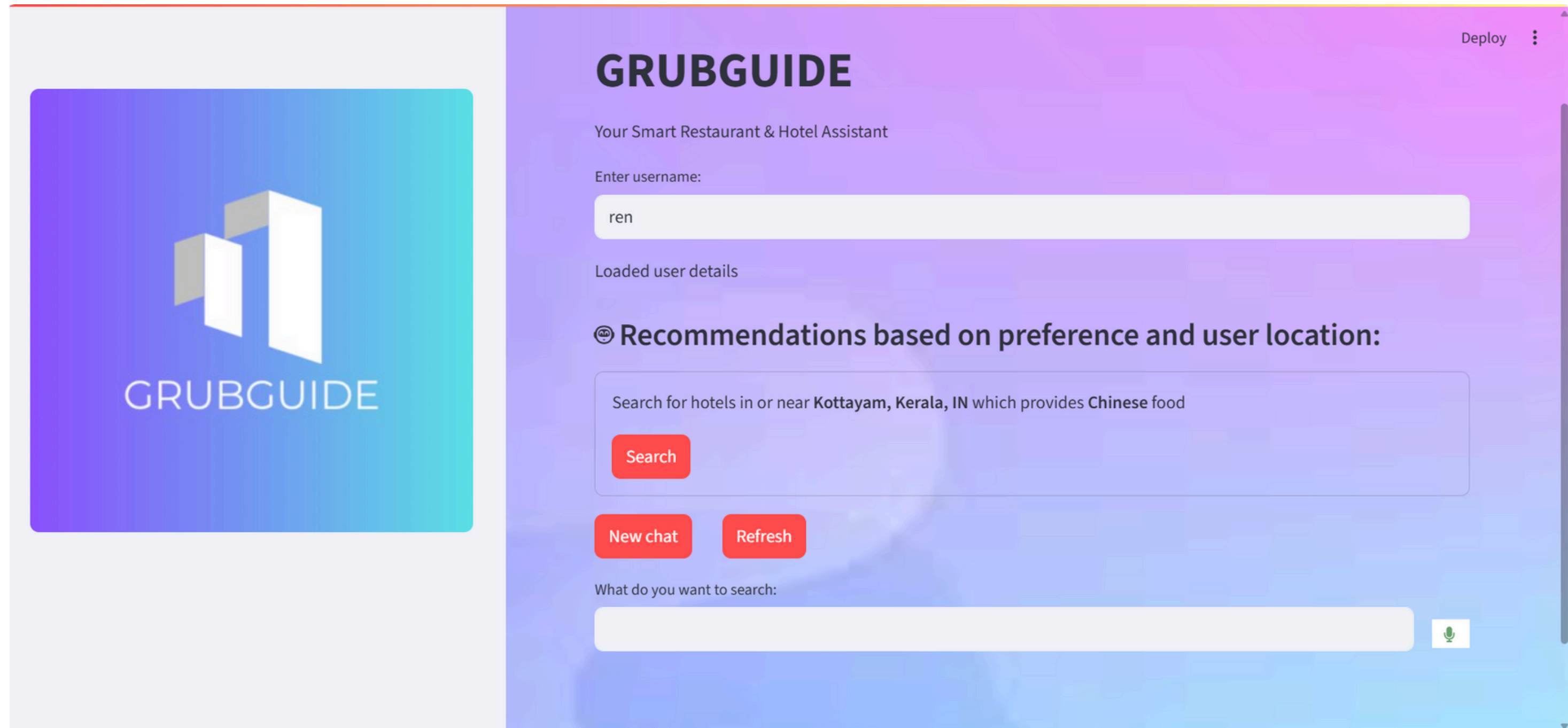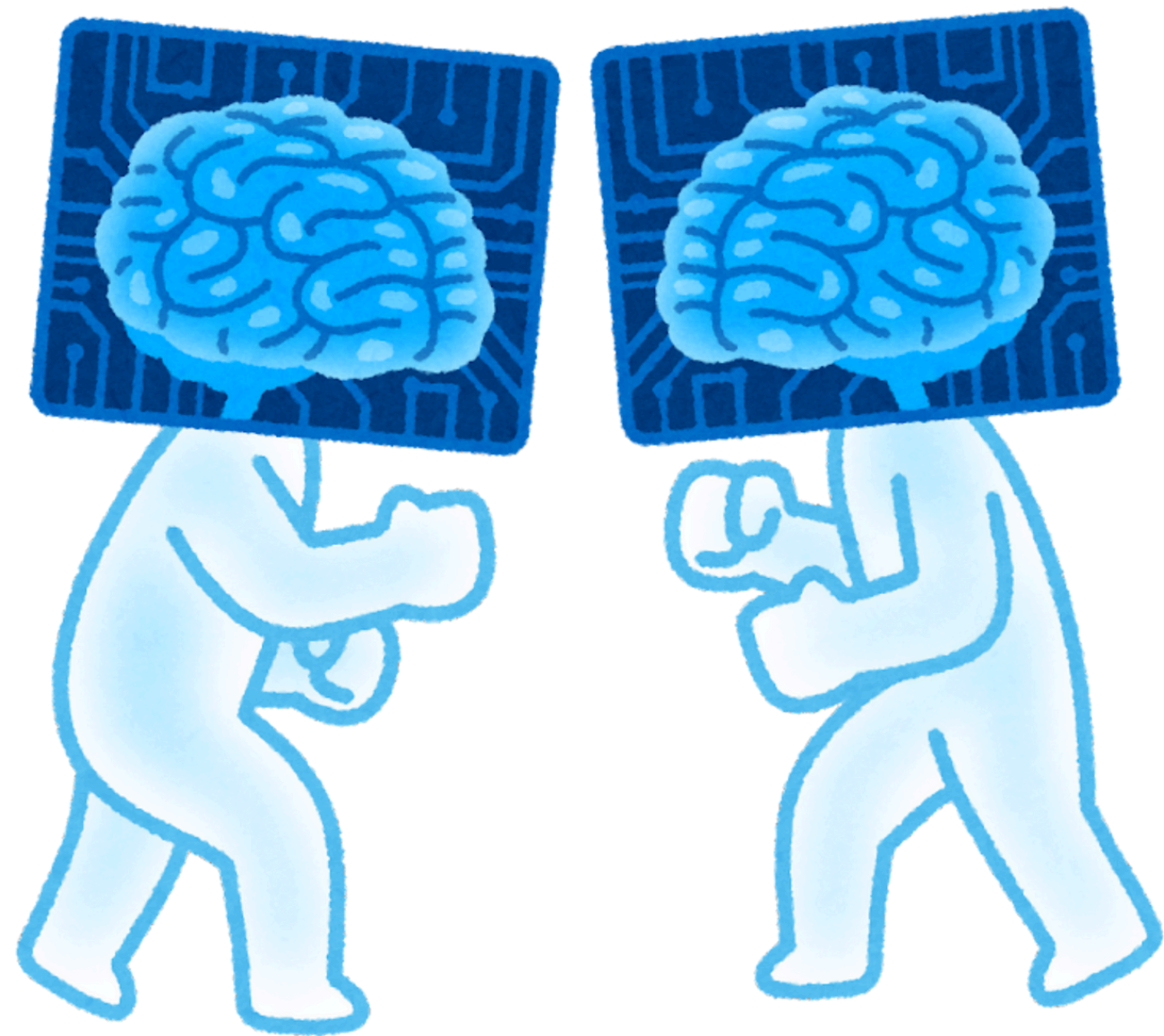
Overview of the Workflow

Core Technologies

- Data fetching agent: SERP API (access google map details)

- Information extraction agent: Extract intention and user preference from chat using LLM (Llama3-8B).

- Speech recording: Streamlit audio recorder.

- Speech-to-text conversion agent: Groq API (whisper-large-v3-turbo)

- Groq API: LLM access (Used llama3-8b-8192 model)
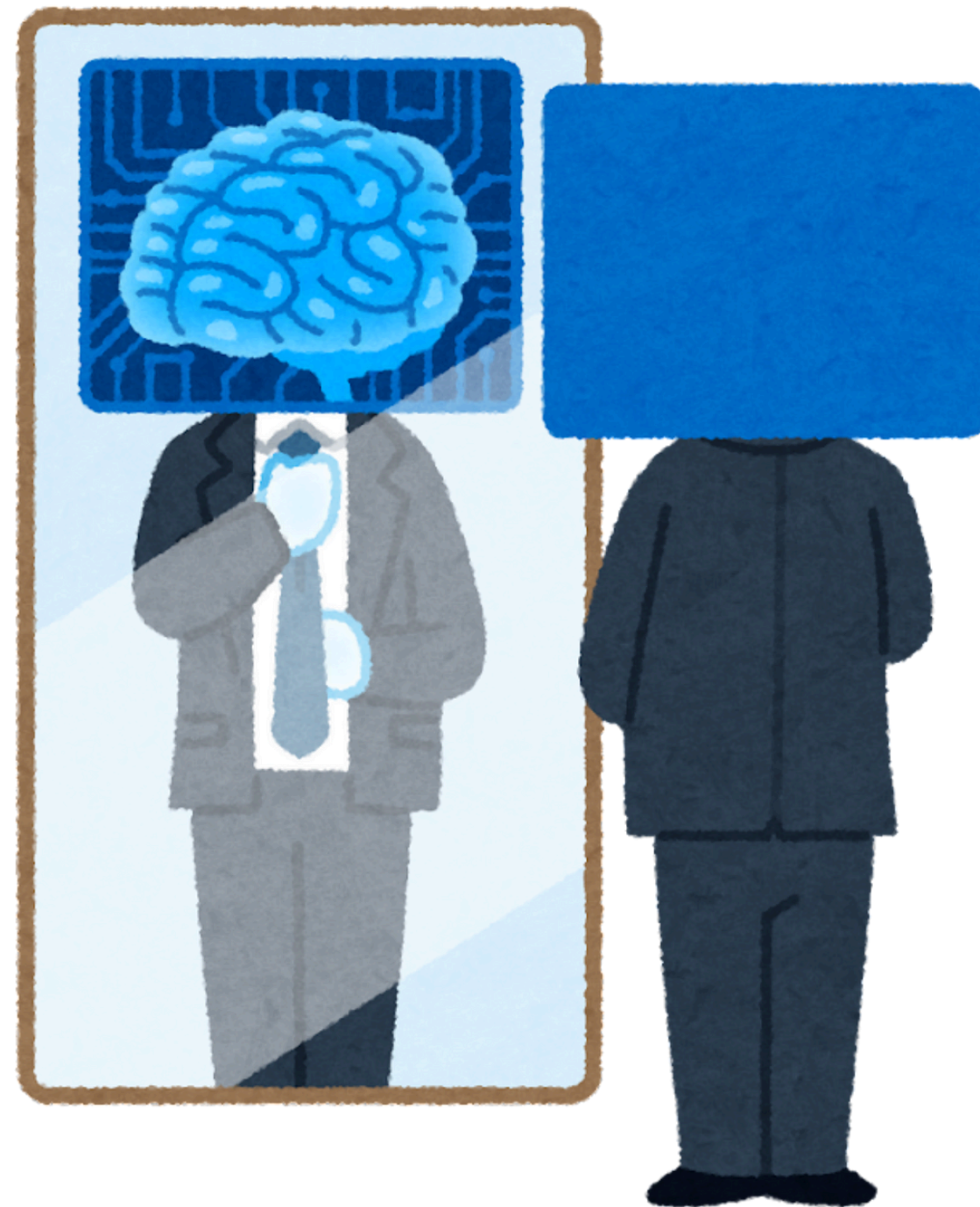
- IP info: Get user current location.

User Interface

Real-World Impact

- Provides concise and relevant personalized results, saving time and effort.
- Supports travelers, locals, and newcomers in unfamiliar cities.
- Supports voice assisted search.
- Provides smarter recommendations for repeat users.
- Scalable for other Domains

In Future

- Expand the tool's capabilities to support booking of seats in hotels in the tool itself.
- Add feedback loop where user choices improve future recommendation quality.

Appreciation Note

Special thanks to Groq for enabling seamless and lightning-fast AI inferences, which played a crucial role in our solution.

A big thank you to the organizers of <u>RAISE YOUR HACK</u> for hosting this incredible event, fostering collaboration, and inspiring us to tackle such a challenging and rewarding problem.

Meet The Team

Jisha Anu Jose

Demo

Thank You