■ HR Buddy – Documentation

1. Overview

HR Buddy ■ is a lightweight HR-focused chatbot built with Streamlit. It helps employees quickly find answers about salary ■ and insurance ■■ related queries. The chatbot provides concise, to-the-point answers, interactive UI, voice assistant support, and smart agent-based routing.

2. Features

■ Sidebar (Navigator): Quick navigation buttons, Clear Chat, and branding.
■ Chat Interface: Conversational UI with avatars (■ user, ■ salary agent, ■■ insurance agent).
■ Voice Assistant: Responses are spoken using gTTS.
■ Smart Answering: Uses Mini TF-IDF search to extract one-liner answers from knowledge base.

3. Project Structure

■ streamlit-multi-agent-rag
■ ■ app.py → Main Streamlit app
■ ■ agents.py → Mini TF-IDF + Agent logic
■ ■ data/
■ ■ ■ salary.txt → Salary knowledge base
■ ■ ■ insurance.txt → Insurance knowledge base

4. How It Works

1. User asks a question in chat or via sidebar quick buttons.
2. Query is routed to SalaryAgent or InsuranceAgent automatically.
3. Agent retrieves the most relevant one-liner from text files.
4. Answer is displayed in chat with avatar + voice output.

5. Example Questions

■ Salary Questions:
- How do I calculate annual salary?
- What is included in my CTC?
- What is basic salary?
- How is net salary calculated?

■■ Insurance Questions:
- How can I claim insurance?
- What documents are needed to claim insurance?
- What is a cashless claim?
- What is not covered in insurance?

6. How to Run

1. Install dependencies:
pip install streamlit gtts

2. Run the app:
streamlit run app.py

3. Open browser → http://localhost:8501

7. Future Improvements

- Add database backend for HR policies.
- Add admin panel for HR to update FAQs.
- Integrate speech-to-text for voice input.
- Expand with leave policies, tax queries, reimbursements.