

# ISHA NAYAL

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## Education

Colonels Public School  
12 PCM

Gurugram, Harayana  
2023 - 2024

Dronacharya College of Engineering  
Bachelor of Technology in Computer Science and Information Technology

Gurugram, India  
08/2024 - 08/2028

## Technical Projects

### Local RAG

<https://github.com/IshaNayal/Local-RAG>

- Developed a Local RAG (Retrieval-Augmented Generation) system using Python.
  - Implemented document embedding and retrieval with FAISS for efficient local vector search.
  - Enabled offline, privacy-preserving query resolution with context-aware responses.
  - Optimized the system for fast retrieval, modularity, and ease of local deployment
- Developed a Local RAG (Retrieval-Augmented Generation) system using Python, enabling real-time contextual Q&A without cloud APIs.
- Implemented FAISS-based vector search, indexing over 1,000+ documents with average retrieval time under 150ms.

### Mental AI Health Chatbot

<https://github.com/IshaNayal/mental-ai-chatbot>

- Developed a **Streamlit-based web application** for mental health support with real-time AI conversation capabilities using **Ollama's LLaMA3 language model**.
- Implemented **session-based chat history management** using `st.session_state` to maintain context-aware responses throughout the interaction.
- Engineered AI-driven features like **positive affirmation generation** and **5-minute guided meditations** using prompt-based querying with a local LLM.
- Optimized user interaction flow with asynchronous response handling via **Streamlit's spinner and layout controls (columns, buttons, markdown)** for smooth UX.

### Personal Portfolio

<https://github.com/IshaNayal/final-portfolio>

- Built and deployed a personal portfolio using HTML, CSS AND JavaScript.
- Showcases my skills, projects and contact information in a clean, mobile-friendly design
- Deployed using Vercel
- Portfolio : <https://portfolio-ckxd.vercel.app/>

## Technical Skills

AI/ML — Python, Ollama, LangChain, FAISS, Chroma, RAG, LLM

Front End Development — HTML, CSS, JavaScript