Rahul Singh

rahulsingh12022002@gmail.com | +916390864564 | Pune , Maharashtra , 412101

Linkedin | github | linkedin | blog

EDUCATION

Babu Banarasi Das Engineering College — Lucknow
CSE (AI) Bachelor of Technology — Oct 2021 - July 2025

Sant Atulanand Convent School — Varanasi
PCM Intermediate — July 2020 - July 2021

Udai Pratap Public School — Varanasi
Full-time High School — April 2018 - May 2019

EXPERIENCE

RadicalX | AI Intern — Remote | Nov 2024 - Jan 2025
- Collaborated with team members to ensure seamless development of AI technologies.
- Implemented natural language processing techniques for analytics tasks.
- Leveraged Pandas and TensorFlow libraries to enhance productivity.
- Improved Communication Skills and Teamwork.
- Experienced professional work environment.

SKILLS

Programming Languages:	Python, JavaScript, HTML, CSS
Libraries/Frameworks:	scikit-learn, NumPy, Pandas, LangChain, AI/ML
Tools / Platforms:	GitHub, VS Code, LLM
Databases:	MySQL, SQL

PROJECTS / OPEN-SOURCE

Mental Health Support Chatbot | Link — *Python, NLP, scikit-learn, TensorFlow*
- Developed an intelligent chatbot for mental health support using Python and natural language processing (NLP) libraries.
- Utilized scikit-learn and TensorFlow to design conversational flows, manage user dialogue, and deliver personalized responses.

Dataset Cleaner ML APP | Link — *ML , Python , FastAPI, Numpy*
- Developed full-stack AI dataset cleaning app using React and FastAPI.
- Automated image filtering and deduplication with computer vision.
- Built scalable API and efficient upload/processing workflows.
- Deployed frontend (Vercel) and backend (Render) with CI/CD.

Retrieval-Augmented Generation (RAG) system | Link — *Python, LangChain, PyTorch, FAISS*
- Developed a multi-stage ingestion pipeline to process and index documents (.pdf, .txt, .md) for semantic search.
- Integrated a FAISS vector store with Hugging Face embedding models to create a highly efficient, searchable knowledge base.
- Built a robust conversational agent using LangChain to manage the flow of data between the vector store and the LLM (Google Gemini).

CERTIFICATIONS

- Certificate of Accomplishment in Python - **HackerRank**
- Certificate of Accomplishment in SQL - **HackerRank**
- Certificate of Accomplishment in AI / ML - HackerRank