

SAKET

SD Hall of Residence, Rourkela, Odisha 769008

📞 9257159808 ✉ saketbawlia@gmail.com  [SaketKumar016](#)  [GitHub](#)

Education

National Institute of Technology, Rourkela

Bachelor of Technology in Artificial Intelligence (CGPA: 9.22)

August 2024 - Present

Rourkela, Odisha

Swami Keshwanand Convent School, Sikar

CBSE, Science (PCM) (Percentage - 94.2%)

May 2024

Sikar, Rajasthan

Relevant Coursework

- Machine Learning (ML)
- Deep Learning
- Python
- Linear Algebra for ML
- Generative AI (Gen AI)
- Advanced Probability & Statistics

Projects

Disease Classification and Prescription Generator

June 2025

Python, pandas, numpy, scikit-learn, joblib, optuna, fpdf, streamlit

[GitHub](#)

- Built a system for healthcare professionals to generate prescriptions based on age, symptoms, and sex.
- Accepts 112 unique symptoms and classifies 50 diseases using data from WHO and Mayo Clinic.
- Achieved 95%+ accuracy using a BernoulliNB model; allows PDF prescription download.

ARES: Agent for Repository Exploration & Structured Analysis

Dec 2025

Python, Streamlit, Groq, Agno, PyGitHub, Pydantic, Tree-sitter

[GitHub](#)

- Designed a deterministic, tool-driven GitHub repository intelligence system focused on correctness and zero hallucination.
- Implemented a dual-agent architecture with strict responsibility separation for intent routing and code analysis.
- Enabled repository structure exploration, file inspection, dependency analysis, and README-based summaries.
- Built a Streamlit-based chat interface with no persistent memory and explicit tool usage for reproducibility.

RETRIEVIST: Tool-Augmented RAG Chatbot

Dec 2025

Python, Streamlit, LangChain, Groq, Pinecone, HuggingFace

[GitHub](#)

- Built a modular Retrieval-Augmented Generation (RAG) chatbot with intelligent routing between LLM, tools, and retrieval pipelines.
- Integrated PDF, text, and web ingestion with semantic search powered by Pinecone.
- Implemented tool-enabled agents for Wikipedia lookup, arXiv research retrieval, and secure mathematical evaluation.
- Deployed on Streamlit Community Cloud with secure secrets management and hallucination-resistant responses.

Technical Skills

Languages: Python (Advanced), C (Intermediate), C++ (Intermediate), Java, SQL

Developer Tools: VS Code, Jupyter Notebook, Google Colab

Technologies/Frameworks: Streamlit, GitHub, Git Bash (Basic), Docker (Basic)

Operating Systems: Windows

Leadership / Extracurricular

Quant Finance Community, NIT Rourkela

June 2025 – Present

Member

- Topped the leaderboard by excelling in advanced assignments in linear algebra, probability, and statistics.
- Applied machine learning concepts to financial markets and stock data.
- Performed EDA on real stock market datasets for insights.