

Saptarshi Roy

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SUMMARY

High-achieving Computer Science student (9.06 GPA) specializing in Generative AI development, multi-agent systems, data science, and production-grade automation. Proven track record of shipping software, including publishing the Ranno NLP library and the Sizelib utility library on PyPI, and engineering decoupled RAG applications using FastAPI and Pinecone. Proficient in workflow orchestration via n8n and building full-stack AI tools ready for enterprise environments.

EDUCATION

- **Bachelor of Technology in Computer Science & Engineering** | 2023 - Present (Final Year)
Sister Nivedita University, Kolkata | CGPA: 9.06 (through 3rd Year)
 - **Higher Secondary** (WBCHSE) | *Rajagram S.B. Raha Institution* | 91.4% (2021)
 - **Secondary** (WBBSE) | *Rajagram S.B. Raha Institution* | 90.14% (2019)
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TECHNICAL SKILLS

- Languages & Frameworks: C++, Python, FastAPI.
 - Gen AI & Automation: n8n, LangChain, AI Studio, Hugging Face, Claude Code
 - Databases: Oracle SQL, Pinecone (Vector Database).
 - Automation & DevOps: Docker, Git, GitHub.
 - Cloud & Deployment: GCP, Vercel, Render.
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PROJECTS

Sizelib – Type-Safe File Size Utility Library | Python

06/2026 - 07/2026

- Developed a document-grounded AI assistant supporting PDFs, MS Office files, LaTeX, MD, JSON & more for intelligent analysis using Retrieval-Augmented Generation (RAG).
- Built a decoupled architecture using FastAPI and SSE streaming for real-time responses, ensuring context-aware interactions through Pinecone vector storage.
- **GitHub:** <https://github.com/saptarshiroy39/sizelib>
- **PyPI:** <https://pypi.org/project/sizelib>

Hourly – Intelligent Email-Digest Automation | n8n, API Integration, Gmail SMTP

05/2026 - 06/2026

- Built an n8n-orchestrated automation that compiles and delivers a personalized hourly digest combining real-time weather, curated humor, and AI-summarized tech news into one formatted HTML email.
- Chained a 10-step workflow across OpenWeatherMap, Google News RSS, Gemini 3 Flash summarization, Gmail SMTP delivery, and Google Sheets activity logging.
- **GitHub:** github.com/saptarshiroy39/hourly

Arkiv - Intelligent RAG Application | Python, Next.js, FastAPI, Pinecone, LangChain

01/2026 - 05/2026

- Developed a document-grounded AI assistant supporting PDFs, MS Office files, LaTeX, MD, JSON & more for intelligent analysis using Retrieval-Augmented Generation (RAG).
- Built a decoupled architecture using FastAPI and SSE streaming for real-time responses, ensuring context-aware interactions through Pinecone vector storage.
- **GitHub:** github.com/saptarshiroy39/arkiv
- **Live Link:** arkiv.hirishi.in

Ranno - Natural Language Processing Library | Python, Claude Code

04/2026 - 04/2026

- Built a specialized Python library designed to convert natural language prompts into executable code for instant data science and data processing.
- Focuses on automating repetitive data analysis tasks, significantly reducing manual coding requirements.
- **GitHub:** github.com/saptarshiroy39/ranno
- **PyPI:** pypi.org/project/ranno

Luna AI - Multi-Agent AI Orchestrator | n8n, API Integration

10/2025 - 10/2025

- Architected a multi-agent system that intelligently routes user requests for specialized tasks like research, coding, and media generation.
- Leveraged n8n for system integration, automating complex logic flows between multiple AI models and third-party services.
- **GitHub:** github.com/saptarshiroy39/luna-ai