

Soumyajit Hazra

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PROFESSIONAL SUMMARY

Aspiring AI Engineer and Software Developer with experience in Generative AI, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), Machine Learning, and backend systems. Proficient in Python, FastAPI, LangChain, Docker, and cloud platforms, with hands-on experience building AI-powered applications, semantic search systems, and scalable APIs. Seeking entry-level opportunities to develop impactful AI solutions and production-ready software.

EDUCATION

Atria Institute of Technology

Bachelor of Engineering in Computer Science (Data Science)

Bengaluru, India

2022 – 2026

EXPERIENCE

Data Science Intern

Feb 2025 – May 2025

Amilo AI Pvt Ltd

- Developed AI-powered applications and backend services using Python, FastAPI, REST APIs, and machine learning workflows.
- Built automated data pipelines, web scraping solutions, and data preprocessing systems for analytics, model development, and business intelligence.
- Applied SEO-focused data analysis, keyword optimization, and content intelligence techniques to improve search visibility and digital performance.
- Containerized ML services using Docker while monitoring model performance, inference reliability, and data quality in production environments.

SELECTED PROJECTS

MultiPDF Chat App | Generative AI, RAG, LangChain, Streamlit, FAISS

2026

- Developed a Retrieval-Augmented Generation (RAG) application enabling natural language conversations across multiple PDF documents.
- Implemented document chunking, embeddings, semantic search, and retrieval pipelines using LangChain, OpenAI Embeddings, and FAISS Vector Database.
- Built a Streamlit-based conversational AI platform for document intelligence, knowledge extraction, and context-aware question answering.

Campus Fix – Smart Campus Complaint Redressal System | Kotlin, Firebase, Node.js

2025

- Built a complaint management platform supporting issue reporting, image uploads, status tracking, and automated workflows.
- Developed role-based dashboards for students, administrators, and principals with analytics and resolution monitoring.
- Integrated Firebase authentication, email automation, notifications, and backend services for complaint escalation and resolution.

ProRepo – AI Repository & Talent Discovery Platform | NLP, Python, Machine Learning, React

2025

- Developed an AI-powered platform that analyzes student projects, automatically extracts technologies, classifies domains, and builds dynamic innovation portfolios.
- Designed an adaptive ranking engine using machine learning and NLP to evaluate project complexity, innovation, scalability, and cross-domain contributions.
- Implemented intelligent opportunity matching that connects students with internships, challenges, and industry opportunities based on project relevance and skill profiles.
- Built automated skill analytics and portfolio insights, enabling personalized growth tracking, domain-wise rankings, and data-driven talent discovery.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Kotlin, Swift

AI & Generative AI: LLMs, RAG, LangChain, LangGraph, Prompt Engineering, Vector Databases, Semantic Search

Machine Learning: Scikit-learn, PyTorch, TensorFlow, OpenCV, CNNs, RNNs, Model Evaluation, Feature Engineering

Backend Development: FastAPI, Flask, REST APIs, Node.js, Microservices

Cloud & DevOps: Docker, Kubernetes, CI/CD, Azure, AWS, GCP

Databases: MongoDB, Neo4j, Firebase, FAISS

Frontend & Mobile: Streamlit, Android Development

Version Control: Git, GitHub

CERTIFICATIONS

- Oracle OCI Generative AI Professional
- Oracle Cloud Infrastructure 2025 Certified Foundations Associate
- Microsoft Azure AI Professional Certificate
- Docker Foundations Professional Certificate
- Certified Data Scientist — Neo4j
- MongoDB Developer Toolkit
- Salesforce Agent Blazer Champion Badge

ACHIEVEMENTS

- Runner-Up — Arya AI Hackathon 2023
- Smart India Hackathon (SIH) Finalist 2025

OPEN SOURCE CONTRIBUTIONS

- **OpenSRE (Tracer Cloud):** Contributed to an open-source AI-powered Site Reliability Engineering platform by enhancing observability workflows, automation capabilities, issue analysis pipelines, and reliability-focused system components. Collaborated with maintainers through GitHub-based development practices, issue tracking, and code reviews.
- **Aden AI (Hive Framework):** Contributed to transformer-based autonomous LLM agent systems by implementing adaptive graph execution, node-level failure recovery, structured logging, and execution tracing to improve reliability, observability, and fault tolerance of agent workflows.