

SOMYA RANJAN TRIPATHI

Software Engineer | AI Infrastructure & Full Stack Developer

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PROFILE

Computer Science Engineer specialising in high-performance **Java backend systems** and **end-to-end AI pipeline development**. Proven capability in architecting **data-driven infrastructure** and deploying **predictive machine learning models** for **complex analytical challenges**.

EDUCATION

Babu Banarasi Das (BBD) University Lucknow, Uttar Pradesh
Bachelor of Technology in Computer Software Engineering | CGPA: 7.71/10.0 August 2023-September 2027

- Coursework: System Fundamentals, Architectural & Engineering Depth, Project-Specific Electives, Data Structures, Algorithms, and Object-Oriented Design.

Delhi Public School - India Lucknow, Uttar Pradesh
Higher Secondary Education, PCM & Computer Science | Grade: 73.4% July 2018-March 2023

- Coursework: Computer Science Foundations, Database Management Systems, Web Development Fundamentals, Data Manipulation & Logic.

EXPERIENCE

YBI Foundation | Internship Remote, Delhi
Artificial Intelligence & Machine Learning Intern September 2024-November 2024

- Developed and trained the "Valley Prediction Model," utilising advanced regression analysis on 120,000+ data points to extract structured insights from complex datasets.

ACADEMIC PROJECTS

LekhaBit Platform: A Scalable SaaS Production Initiative June 2026-Present

- Spearheaded backend development and open source contributions for a collaborative SaaS application, engineering an architecture designed to scale toward 10,000+ concurrent users.

Ambaram Sentinel: AI Weather Prediction Model on Extreme Weather Events July 2025-March 2026

- Architected an AI-driven predictive system for extreme weather patterns by implementing regression models capable of processing real-time data ingestion pipelines at 24+ MB/s.

AI PHILOSOPHY: AI Chatbot Integration using locally fine-tuned LLM December 2025 – April 2026

- Built a responsive public-facing web platform dedicated to artificial intelligence ethics, optimising the interface to achieve sub-2-second page load times.

TECHNICAL SKILLS

- Languages/Databases:** Java, Python, JavaScript, MySQL, PostgreSQL, MongoDB, HTML5, CSS.
- Web/App Development:** Spring Boot, Flutter, Next, React, Node, Django, Flask, FastAPI, REST APIs, Streamlit.
- DevOps/Others:** PyTorch, Docker, AWS (CodePipeline, EC2), GitHub Actions, Cloud Infrastructure Essentials.

COURSES & CERTIFICATIONS

- Getting Started with AI on Jetson Nano | NVIDIA** February 2026
- Getting Started with the AWS Cloud Essentials | Amazon Web Services (AWS)** March 2026
- JavaScript Developer | FreeCodeCamp** May 2026
- Claude with Google Vertex AI | Anthropic** May 2026
- Foundation: Monitoring Production Agents | Langchain Academy** May 2026
- Artificial Intelligence Agents Course | Hugging Face** May 2026

HONOURS & AWARDS

- Advanced Software Engineering Job Simulation (Walmart Global Tech) | Forage** May 2026
- Solutions Architect Simulation (AWS) | Forage** August 2024
- Event President | Delhi Public School, Saheedpath, Lucknow** November 2022