Shreyan Ghosh

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GitHub | LinkedIn

SUMMARY

B.Tech CSE (AI & ML, 2026) student with a strong foundation in **C++, OOP, Data Structures, and Algorithms**, aspiring to become a Software Development Engineer. Skilled in **C++, JavaScript, React.js(basics), Node.js**, and basic **Azure** concepts. Hands-on experience in **full-stack development**, **machine learning generative AI**, and **software engineering practices** such as Agile, version control, and test-driven development. Passionate about writing clean, maintainable code and solving real-world problems that impacts millions.

EDUCATION

Netaji Subhash Engineering College, MAKAUT, West Bengal
B.Tech in Computer Science & Engineering (AI & ML) | **2022 – 2026(Expected)**
SGPA: **8.65** (Last Semester) | Overall GPA: **8.00**

Secondary (CBSE), JUSCO School Kadma | 2019 | **93.8%**
Senior Secondary (CBSE), Vidya Jyoti School | 2021 | **94.8%**

SKILLS

Programming Languages: C, C++, Java Python, JavaScript, TypeScript(basic)

Frameworks & Libraries: React.js, Node.js, Express.js, Hadoop(basic familiarity)

Database Systems: MongoDB, Cassandra(basics)

Core Concepts: OOP, Data Structures & Algorithms, Design Patterns, SDLC, TDD, Agile/Scrum(upskilling)

Cloud & DevOps: Azure Cloud (basic), Kubernetes (exposure)

Tools: Git, GitHub, Azure Microsoft Webservices(basic familiarity), Qodo Merge, DX Ai chat(exposure)

Others: HTML, CSS, REST APIs, Debugging, Unit Testing, System Design(upskilling)

Languages: English, Hindi, Bengali

PROJECTS

Smart Resume Matcher Portal | Ongoing Project
- Developing a full-stack portal using **MERN** and **Machine Learning** to match resumes with job descriptions.
- Implementing resume parsing, job matching algorithms, and scalable **REST APIs.**
- **Technologies:** React.js, Node.js, MongoDB, Python (NLP).

Pneumonia Detection using Custom CNN
- Developed a custom CNN model on the Kaggle Chest X-Ray dataset to classify chest images as *Normal* or *Pneumonia*.
- Handled class imbalance with **data augmentation**, applied **early stopping**, and visualized regions using **Grad-CAM**.
- Achieved **97% test accuracy** after fine-tuning the CNN architecture and training hyperparameters.
- Integrated **Grad-CAM visualization** to highlight infected regions on X-rays, improving model interpretability and medical transparency.
- **Technologies:** Technologies: Python, TensorFlow, OpenCV, Matplotlib.

CERTIFICATIONS

- Generative AI Mastermind – Outskill (2025)
- Deloitte Cyber Job Simulation – Forage (2025)
- Smart Automation through IoT – Industrial Training Program (2024)

ACHIEVEMENTS

- Solved 100+ DSA problems across LeetCode, G4G, and other platforms, strengthening problem-solving skills.
- Secured Google Cloud Arcade goodies through cloud-based challenges.
- Active participant in college tech fests.