

Achinta Hazra

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Summary

Passionate Computer Science undergrad with hands-on experience in Full-Stack Development, Machine Learning, and Generative AI. Skilled in building scalable web platforms and intelligent systems like DevCollab and Intelligent Education Assistant, integrating real-time collaboration, deep learning, and cloud deployment. Eager to apply technical expertise to impactful projects in software engineering and AI innovation.

Projects

- **DevCollab** | **Live:** <https://dev-collab-ten.vercel.app>
A full-stack collaborative development platform built with Next.js, React, TypeScript, and Node.js (Express) using MongoDB, Redis, AWS S3, and Cloudinary. Features include real-time code editing, file sync, and integrated communication tools (chat, video, whiteboard). Supports Kanban-based project management, JWT/OAuth authentication, and CI/CD deployment via Docker, GitHub Actions, and Vercel with robust monitoring through Sentry and Google Analytics.
- **Intelligent Education Assistant (ML + DL + GenAI)**
An adaptive learning platform that predicts student performance, analyzes handwritten notes using OCR and CNNs, and summarizes lectures with Transformer models. Integrates a GenAI tutor chatbot that explains concepts, generates quizzes and study summaries, and personalizes learning paths based on student data.

Technical Skills

- **Programming:** Python, Java, JavaScript (React.js, Node.js, Express.js), C++, Shell Programming.
- **Web Technologies:** HTML5, CSS3, REST API integration.
- **Databases:** MySQL, MongoDB, PostgreSQL.
- **Machine Learning:** Data preprocessing, visualization, model training, evaluation, deployment (Flask, Next.js).
- **Generative AI:** Fine-tuning, RAG systems.
- **Core Concepts:** DSA, OOP, DBMS, Networking, Operating System.
- **Tools & Frameworks:** VS Code, Postman, Git, NumPy, Pandas, Seaborn, Matplotlib.
- **Collaboration:** Team collaboration, Agile development practices.

Education

Durgapur Institute of Advanced Technology and Management (DIATM) West Bengal

B. Tech: Computer Science & Engineering

Expected Graduation: June 2026 | GPA: 8.2

Certifications

- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional
- Internship on IEEE CIS KOLKATA in Development of Agent AI for Cybersecurity.
- Web Development Bootcamp, Teachnook, 2023
- Python for Everybody, Coursera, 2023
- Cadeasy – Java Development, 2024 | ML using Python, 2024

Availability

- Internships
- Full-time roles
- Freelance projects

Interest Areas

- Full-Stack Development
- Data Science
- Software Engineering
- Open Source