

PRODIPTA CHAKRABORTY

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[\[LinkedIn\]](#) | [\[GitHub\]](#) | [\[Portfolio\]](#)

PROFESSIONAL SUMMARY

Computer Science Undergraduate with expertise in Artificial Intelligence and Full-Stack Development. Proven track record of building scalable web applications using the MERN stack and integrating Deep Learning models. Proficient in Python and Django, eager to deliver innovative technical solutions.

EDUCATION

B.Tech in Computer Science & Engineering *Institute of Engineering & Management, Kolkata* | 2023 – 2027

- **CGPA:** 8.5

Senior Secondary (Class XII) *Aditya Academy Sr. Sec School (CBSE)* | 2023

- **Score:** 80.00%

Secondary (Class X) *WWA Cossipore English School (ICSE)* | 2021

- **Score:** 86.00%

TECHNICAL SKILLS

- **Languages:** Python, Java, C, SQL, JavaScript.
- **Frameworks:** React.js, Node.js, Express.js, Django.
- **AI/ML:** TensorFlow, MediaPipe, OpenCV, Scikit-learn, Pandas, NumPy.
- **Tools:** Git, GitHub, Postman, Figma, MongoDB.

INTERNSHIP

Machine Learning Intern | *Unified Mentor (Virtual)* | Sep 2024 – Oct 2024

- Collaborated with a team to engineer a CNN-based model.
- Developed a predictive model for Handwritten Letter Recognition using Deep Learning techniques.
- Gained practical experience in data preprocessing and model training.

Technology Job Simulation *Deloitte Australia (Virtual)* | Jun 2025 .

- Completed a practical job simulation involving software development lifecycles.
- Architected a proposal for a client dashboard and executed coding tasks to meet specific business requirements.

ACADEMIC PROJECTS

Ishara | July 2025. [LINK](#)

- Engineered a real-time bi-directional sign language translation engine using MediaPipe and Django, achieving 90%+ prediction accuracy.
- Integrated a custom-trained LSTM model to process temporal gesture sequences, enabling seamless communication for visually and hearing-impaired users.
- Tech Stack: Django .

Sentiment Recognition System | Jul 2024 – May 2025

- Deployed a hardware-integrated sentiment analysis tool on Raspberry Pi 4B+, utilizing TensorFlow and LSTMs to classify user input with 80%+ accuracy.
- Tech Stack: Python, TensorFlow, Keras, Raspberry Pi 4B+, LSTM.

PERSONAL PROJECTS

Zep-It | Dec 2025-Present. [LINK](#)

- Architecting a hyper-local delivery platform using Next.js 14 and MongoDB, designed to handle concurrent user sessions for customers and vendors.
- Implemented Role-Based Access Control (RBAC) for vendor inventory management and real-time order tracking.
- Optimized database queries to enable split-bill functionality and transaction analysis, reducing data retrieval latency.
- Tech Stack: Next.js , Node.js , MongoDB

GigFlow | Jan 2026 – Present . [LINK](#)

- Architecting a freelance marketplace connecting clients with freelancers, emphasizing a seamless user experience.

- Implemented JWT-based authentication and a proposal management system, reducing login latency by 20%.
- Tech Stack: React.js, Node.js, MongoDB.

Python Automation System (Internship Assignment) | Jan 11, 2026 – Present . [LINK](#)

- Developed a Python automation script integrating Gmail API and Google Sheets API to parse incoming unread emails in real-time.
 - Automated data extraction workflows, reducing manual entry time by 100% for internship reporting tasks.
 - Tech Stack: Python, Gmail API, Google Sheets API.
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CERTIFICATIONS & TRAININGS

- **Information Theory** | The Chinese University of Hong Kong | 2025 [CERTIFICATE](#)
Credential ID: 3V30GR40Q0XX | Grade: 88.33%
Applied Shannon Entropy and source coding algorithms (Huffman) to optimize data transmission and error correction.
- **Cyber Security Fundamentals** | University of London | 2025 [CERTIFICATE](#)
Credential ID: UOGPMEP0ZG3G | Grade: 100%
Mastered Network Security protocols (TCP/IP, DNS) and the CIA Triad to mitigate phishing and malware threats.
- **Advance Security Topics** | University of Colorado System | 2024 [CERTIFICATE](#)
Credential ID: 2WY9XK0JX32L | Grade: 91.66%
Studied Vulnerability Assessment, Penetration Testing methodologies, and Intrusion Detection Systems (IDS).