

Shinjini Chakraborty

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INTRODUCTION

Software developer with experience in building intelligent, user-centric website and application development. Passionate about AI/ML and deep learning, with a strong interest in contributing to impactful research. Currently pursuing BTech in Computer Science with AI/ML specialization.

EDUCATIONAL QUALIFICATIONS

| Program | Institution | CGPA/Marks (%) |
|---------------|---|-----------------------------------|
| B. Tech (CSE) | Institute Of Engineering & Management, Saltlake | 9.5 (Current Avg) (Expected 2027) |
| XII | South Point High School | 90.0% (2023) |
| X | South Point High School | 98.4% (2021) |

SKILLS

- **Programming Languages:** C, Python, Java
- **Web/App Development:** React.js, HTML/CSS, JavaScript, Node.js, Flutter
- **Machine Learning & AI:** TensorFlow, PyTorch, OpenCV, Hugging Face
- **Databases:** MySQL, MongoDB
- **Tools & Platforms:** Git/GitHub, Google Colab, MATLAB, Latex
- **Other Skills:** MS Word, MS Excel, PPT, PowerBi
- **Professional Skills:** Problem-solving, Teamwork, Adaptability, Pressure Handling

PROJECTS

Disease Prediction Model using Deep Learning [2024]

Python, PyTorch, Streamlit

Developed a real-time disease prediction system using symptom inputs, leveraging transformer models for accurate predictions.

Deployed an interactive, user-friendly interface using Streamlit to enhance user engagement and accessibility.

DeepFake Video Detection using Frame Rate Analysis [2024]

OpenCV, LSTM

Built a deep learning model to detect deepfakes by analyzing visual (facial artifacts) and audio (speech inconsistencies) cues.

Achieved high precision in detecting deepfakes on benchmark datasets, integrating CNNs and LSTMs for improved analysis.

Frontend Design of College Centre of Excellence Laboratory [2024–2025] *React.js, Tailwind CSS*

Designed and developed an interactive UI for the IEM CEDS website, enhancing user navigation and experience.

Utilized React hooks and dynamic routing for a responsive and smooth user interface, improving overall usability.

Document Layout Analysis for Structured Data Extraction [2025]

Analyzed scanned academic documents to identify and extract relevant components for data publication. Applied layout analysis techniques to automate structured data extraction, streamlining the publication process.

Eco-Alert [2025]

React.js, Express.js, RESTful APIs, Google Maps SDK

Developed the design for both app and website versions of a cross-platform environmental hazard reporting app.

Built the frontend using React.js, Express.js, and integrated Google Maps SDK for location-based hazard reporting.

BloodLink [2025]

React.js, Express.js, MongoDB Atlas, Redis, TensorFlow, Cloudflare

Developed BloodLink, an end-to-end Blood Bank Management System leveraging full-stack technologies and TensorFlow-based predictive analytics.

Deployed via Cloudflare Workers/Pages, optimizing real-time inventory sync, donor-blood matching, and demand forecasting to reduce emergency shortages.

HACKATHONS & COMPETITIONS

- **Smart India Hackathon 2024:** Team Sandwich, worked on DeepFake Detection
- **Accenture GenAI Hackathon:** Developed an AI-driven solution for businesses
- **Diversion 2k25 (by MLH):** Built a Blood Bank Management System frontend in React.js

CERTIFICATIONS

- **Information Theory** – Coursera: Explored entropy, source/channel coding, and communication efficiency fundamentals.
- **Advanced System Security Topics** – Coursera: Studied secure systems design, memory corruption, and defense mechanisms.