

# DEBATOSH ROYCHOWDHURY

Kolkata, West Bengal

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## Internship Experience

### CodeSoft

January 2025 – February 2025

Full Stack Intern, Worked on the **Hireminds project**

- Collaborated on the development of the Hireminds Job Portal, contributing to both front-end and back-end tasks.
- Assisted in optimizing database queries and improving API performance using Express.js, JavaScript, and MongoDB.
- Gained hands-on experience in agile development and cross-functional team collaboration.

## Projects

Deepfake Detection | *Python, TensorFlow, Flask, HTML, CSS* | GitHub

September 2024

- Implemented a 3D Convolutional Neural Network (CNN) to detect deepfakes, achieving **85% accuracy** on a test set of large video dataset.
- Integrated Google MediaPipe for real-time face detection (processing **30+ frames/sec**), extracting facial landmarks for the 3D CNN pipeline.
- Created Matplotlib dashboards to visualize model outputs and key metrics, reducing analysis time by **40%**.
- Built a Flask-based web interface supporting displaying detection results in under **2 seconds** per video.

Hireminds Job Portal | *Express.js, JavaScript, MongoDB* | GitHub | LIVE

July 2024

- Engineered resume upload and parsing for multiple formats, extracting skills, experience, and education data.
- Designed and optimized MongoDB schema; implemented indexing and caching to improve search speed and API responsiveness.
- Enforced data security with authentication, authorization, and encryption; added error handling and monitoring for reliability.

## Education

Techno International Newtown

September 2022 - June 2026

Bachelor of Technology in Computer Science (CGPA of 7.63)

West Bengal, India

Gobardanga Khantura High School

May 2022

Higher Secondary Education (85%)

West Bengal, India

## Profile Links

- Leetcode
- GeeksforGeeks
- HackerRank

## Technical Skills

Languages: C, C++, Python, Java

Technologies: HTML, CSS, JavaScript, Express.js, MongoDB, React

## Certifications

Full Stack Web Development — [LINK](#)

AWS Builders Campaign — [LINK](#)

Goldman Sachs Software Engineering Virtual Experience Program — [LINK](#)

## Achievements

**SIH Internal Hackathon Winner 2024:** Developed the backend and frontend with Flask, HTML, and CSS for the deepfake detection website. Winner out of 123 teams across the entire college.

**Hackathon Finalist 2023:** Led a team to the finals in Inter College Smart India Hackathon, demonstrating strong leadership, teamwork, and innovative problem-solving skills.