

# ANUBHOB DEY

B. Tech Student | Focused on Software Development and Machine Learning

+91 9830332228 | [anubhob.dey2022@uem.edu.in](mailto:anubhob.dey2022@uem.edu.in) | Kolkata, WB, India | [Portfolio](#) | [GitHub](#) | [LinkedIn](#)

## EDUCATION

### University of Engineering and Management

B. Tech in Computer Science & Engineering (AI & ML) CGPA: 8.43/10

Kolkata, WB

August 2020 – present

### B. D. M. International

Senior Secondary

Kolkata, WB

April 2020 - May 2022

Secondary

April 2018 - March 2020

## SKILLS SUMMARY

- **Technical Skills:** Automation, Web Development, Software Development, Database Design & Optimization, Code Refactoring, Data Structures & Algorithms, Object-Oriented Design, Data Engineering.
- **Programming Languages:** C, Java, Python, SQL, Unix
- **Databases:** MongoDB, MySQL, Oracle
- **Cloud Technologies:** Microsoft Azure, Google Cloud Platform

## INTERNSHIP EXPERIENCE

### Data Engineer for AI Model Training | Legal Gini | Remote

January 2025 – Ongoing

- Designed a web crawler using Python, Selenium achieving a 50% increase in efficiency for data mining.
- Engineered an automated data pipeline with parallel processing, boosting workflow speed by 500%.
- Deployed an AI agent to actively monitor workflow logs 24/7, providing instant feedback.
- Optimized vectorization and data upload to AWS S3 Buckets, accelerating model training.

## PROJECTS

### Enhanced School Bus Safety with GPS Tracking | TrackBees | Group Project

August 2024 - Ongoing

- Developed a real-time GPS tracking system with 40ms latency, enhancing student safety.
- Integrated Google Cloud's scalable solutions to support 50+ simultaneous users reliably.
- Implemented end-to-end 256-bit encryption to safeguard sensitive student data.
- Built an AI-driven monitoring system to deliver real-time notifications within 40ms.

### Automated Web Scraping Pipeline

August 2024 - September 2024

- Architected a robust data pipeline with Selenium, Scrapy, and BeautifulSoup, ensuring 99.9% uptime and zero data loss.
- Streamlined data preprocessing, accelerating read operations by 10%.
- Developed AI models to bypass reCAPTCHA within 7 seconds for uninterrupted data extraction.
- Enhanced versatility by supporting multiple data formats: text, graphs, tables, and AI-summarized reports.

### Real-Time Sign Language Translator

January 2024 – May 2024

- Designed and fine-tuned a sign language model, boosting translation accuracy.
- Optimized TensorFlow Lite for 30% reduced memory usage and 70% faster inference.
- Engineered a Raspberry Pi setup, delivering sub-20ms response times for real-time translations.

## CERTIFICATIONS

- CS50x: Harvard University's Introduction to Computer Science (June 2024)
- CS50p: Harvard University's Introduction to Python Programming (October 2024)
- Udemy: The Complete 2024 Web Development Bootcamp (November 2024)
- LinkedIn Learning: Java Object Oriented Programming (April 2024)

## LEADERSHIP EXPERIENCE, INTERESTS & AWARDS

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- Mentored 50+ students as a Volunteer Teaching Assistant for Shiksha Sabke Liye NGO.
- Led fundraising efforts for climate action, supporting the Green (R)evolution Organization.
- Recognized as the “Tech Wizard of the Year” for outstanding innovation and leadership.
- Interests: Chess enthusiast; founded a local chess club for seniors.