

# ROHIT BANIK

Kolkata, West Bengal, India

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## Education

### Narula Institute of Technology

Bachelor of Technology in Computer Science & Engineering (CGPA: 8.0)

Sept 2023 – June 2027

West Bengal, India

### Assembly of Angels Secondary School

10+2 Higher Secondary Education [ISC] Science (Percentage: 82)

2023

West Bengal, India

### Assembly of Angels Secondary School

10th Secondary Education [ICSE] (Percentage: 91)

2021

West Bengal, India

## Projects

### EMPLOYEE MANAGEMENT SYSTEM (EMS) | Java-based CRUD Application | Java | SQL | Railway | [GitHub](#)

- Built a full-stack Employee Management System using Java and SQL, supporting core CRUD operations (add, view, update, delete employee records). Deployed independently on Railway for accessibility, with modular coding and version control using Git/GitHub.

### IoT LPG GAS LEAKAGE DETECTOR | Embedded IoT Safety System | NodeMCU | MQ-2 Sensor | GSM | C++ |

- Developed an embedded IoT system for real-time gas leak detection with threshold-based event handling. Integrated automated SMS/call alerts via GSM module and designed reliable hardware-software interfacing for continuous monitoring.

### VISIONSAFE AI SURVEILLANCE PLATFORM | Computer Vision Project | Python | OpenCV | Deep Learning | [GitHub](#)

- Explored real-time object detection for behavioral pattern classification using live video feeds. Tested end-to-end pipeline for a surveillance use case and applied deep learning models to enhance detection accuracy and response time.

### AI MENTAL HEALTH CHATBOT | NLP-based Chatbot | Python | TensorFlow | NLP | Flask | [GitHub](#)

- Built a chatbot prototype with NLP-based sentiment analysis for empathetic user interaction. Integrated Flask backend for real-time response generation, applying tokenization and intent classification for accurate conversational flow.

## Experience

- AI Intern at **Infosys Springboard** (Internship 6.0), Dec 2025 – Feb 2026 – Trained and evaluated computer vision models for behavioral monitoring; gained exposure to Agile sprint planning.
- Android Developer Intern at **AICTE – Google for Developers**, July 2025 – Sept 2025 – Explored Android development using Java and Android Studio; focused on MVC architecture and API integration.
- AI/ML Intern at **AICTE – Edunet Foundation (IBM SkillsBuild)**, June 2025 – July 2025 – Trained ML models using Python (Scikit-Learn, Pandas) with hands-on data preprocessing and feature engineering.

## Achievements

- Participated in **Hack-o-NIT Hackathon 2024** organized by NIT.
- Consistently maintained **CGPA above 8.0** throughout undergraduate studies.
- Completed **3+ industry-recognized internships** during undergraduate program.

## Certifications

- Programming in Java (Issued by **NPTEL**), 2025
- Android Development (Issued by **Ardent Computech PVT LTD**), 2025
- AI/ML Virtual Internship (Issued by **IBM SkillsBuild**), 2025

## Skills

**Languages:** Java, C, C++, SQL

**Technologies/Frameworks:** Flask, TensorFlow, Scikit-Learn, Pandas, NumPy

**Developer Tools:** Git, GitHub, VS Code, Android Studio, MySQL, Google Colab

**CourseWork (Undergraduate):** Object-Oriented Programming, Data Structures & Algorithms, Operating Systems, Database Management System, Computer Networks, Artificial Intelligence, Software Engineering

**Interests:** Coding, exploring AI tools, problem-solving, tech blogs.