Ayush Raj
Email: ayush86030@gmail.com | **LinkedIn:** linkedin.com/in/ayush-raj-220ba1249/ | **Mobile:** +91 7979894593

EDUCATION

Vellore Institute of Technology, Chennai
B.Tech in Computer Science (AI & Robotics) | GPA: 8.76 | Sept 2022 - Jul 2026
Himalayan Public School, Patna | Intermediate – PCM & CS | 86% | Apr 2020 - May 2021
St Karen's High School, Patna | Matriculation (CBSE) | 94%

SKILLS

Programming: C, C++, Java, Python, MATLAB, Dart
Web & App Development: HTML, CSS, JavaScript, TypeScript, Flutter
Databases: SQL (Oracle, MySQL), MongoDB
ML & AI: Python (TensorFlow, PyTorch, TFLite)
Embedded Systems & Robotics: Arduino, ESP32, LT Spice, Proteus, TINKERCAD
Tools: VS Code, Android Studio, Xcode, Arduino IDE
Soft Skills: Teamwork, Problem-Solving, Leadership, Communication

---

PROJECTS

AWS-Based Fraud Detection System *(Nov 2024 - Dec 2024)*

- Built an AI-powered fraud detection model with AWS services (S3, Lambda, SageMaker).

- Developed an AI-powered fraud detection system using AWS cloud services for real-time financial transaction monitoring.

AI-Powered Sign Language Conversion System *(Sept 2024 - Dec 2024)*

- Developed an ML-based system for real-time sign language-to-speech conversion.

- Integrated ESP32S microcontroller for hardware implementation.

IoT-Based Weather Monitoring System for smart agriculture *(Nov 2023 - Dec 2023)*

- Built an ML-driven weather monitoring system using ESP32S microcontroller, servomotors , sensors.

Emotion Detection Robot *(Apr 2023 - Jul 2023)*

- Designed a robotic assistant for emotion detection using AI and speech-to-text.

Parallel Computing Library Management System *(Feb 2023 - Apr 2023)*

- Optimized database queries with parallel computing, reducing execution time by 40%.

AI-Powered Search Engine for DSA *(Sept 2023 - Dec 2023)*

- Created a chatbot-based search engine for DSA queries with React and Selenium.

ML-Based Antivirus Software *(Nov 2022 - Dec 2022)*

- Trained an ML model on 1,000+ virus samples for malware detection.

EXTRACURRICULAR ACTIVITIES

FFCS Member | NSS, VIT Chennai *(Aug 2023 - Present)*

- Led and participated in social initiatives like beach cleaning, orphanage visits, STEM teaching, and health camps.

- Developed leadership, teamwork, and social responsibility skills.