

## EDUCATION

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**Vellore Institute of Technology Bhopal, B.Tech in Computer Science and Engineering - 8.53 CGPA** (2023 – 2027)  
**Army Public School, Ambala Cantt, XII: 96.2%** (2022 – 2023)

## PROFESSIONAL EXPERIENCE

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### I.I.M.U.N, Mumbai | Intern

10/24-04/25

- Served as the primary point of contact for authors and successfully managed all logistics and operations for the 3-day IIMUN Vadodara Literature Festival.
- Spearheaded the coordination of nationwide Student Concourses and curated interdisciplinary educational tours in domains such as Technology & AI, Hospitality, and Law to enhance experiential learning.

### iCreate Club, VIT | Co-Founder

12/24-Present

- Leveraged expertise in Integrated Circuits and Microcontrollers to establish a student-led tech club, delivering weekly Arduino-based workshops and fostering a culture of innovation, resulting in increased practical engagement and successful project collaborations across disciplines.
- Collaborated in developing a custom Token Management System for our annual fest by integrating Python scripts with Excel for real-time data handling, designing a secure payment gateway, and deploying a web-based platform to generate and manage unique user-specific tokens, enabling smooth on-ground transactions and tracking during the event.

## SKILLS

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**Languages:** C/C++ | Java | Python | HTML | CSS | JavaScript | SQL

**Frameworks/Technologies/Tools:** VSCode | IntelliJ IDEA | scikit-learn | PyCharm | Arduino IDE

**Certifications:** Introduction to machine learning (NPTEL) | Google Analytics (Google) | Programming in Java (VITyarthi) | Python Essentials (VITyarthi) | Fundamentals of AI and ML (VITyarthi)

**Professional:** Leadership | Collaboration | Problem Solving | Communication

## PROJECTS

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**Rock and Mine Prediction using Machine Learning:** Engineered and optimized a suite of machine learning models—including Logistic Regression, LDA, KNN, SVM, and ensemble techniques like AdaBoost and Gradient Boosting—by implementing robust data preprocessing and noise reduction strategies. Achieved a peak accuracy of 82.09% using Random Forest. Further enhanced accessibility by developing a web application that allows users to input processed Sonar data for real-time prediction and performance evaluation.

**Hospital Management System:** Designed and implemented a robust Hospital Management System using Java and JavaFX for the user interface, with JDBC integration for seamless connectivity to FreeSQL Database. Incorporated role-based access control to enhance security and reduced manual processing by 40%. Optimized database queries to efficiently handle 10,000+ records, significantly improving system performance, scalability, and operational efficiency.

## **RESPONSIBILITIES AND ACHIEVEMENTS**

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**Co-Founder, iCreate Club, VIT Bhopal**

**Secretariat Member, I.I.M.U.N, Mumbai**

**Leadership Council Member and Advisor (VIT Smart Hackathon '24), E-Cell VIT Bhopal**

**Project Supervisor and Lead, Annual Project Exhibition 2024**

**Academic Excellence Award, Army Public School, Ambala Cantt**