ABHAY SINGH CHAUHAN

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Education

Vellore Institute of Technology, Bhopal, India *2023 – 2027*
B.Tech in Computer Science & Engineering
CGPA: 8.53

Army Public School, Ambala Cantt *2022 – 2023*
Class XII (CBSE), Percentage: 96.2%

Skills

Languages: C++, Java, Python, JavaScript, SQL, HTML/CSS
Core Concepts: Data Structures and Algorithms (DSA), OOP, OS, DBMS, CN
Frameworks/Libraries: Scikit-learn, OpenCV, Pandas, NumPy, Streamlit, JavaFX
Developer Tools: Git, GitHub, VS Code, IntelliJ, PyCharm, Arduino IDE, Linux
Soft Skills: Problem Solving, Leadership, Analytical Thinking, Collaboration

Experience

National Geographic Society × The Nature Conservancy — Extern (Remote) *Sep 2025 – Nov 2025*
- Optimized ML-driven data labeling workflows by analyzing marine research metrics using Python.
- Applied statistical methods to identify gaps in regional ecosystem management.
- Consolidated quantitative and qualitative datasets to propose data-backed conservation solutions.
- Developed technical dashboards and reports to highlight ecosystem insights for stakeholders.

iCreate Club, VIT Bhopal — Co-Founder *Dec 2024 – Present*
- Built automation-driven Token Management System using Python and Excel for real-time queue tracking.
- Designed secure web interface for encrypted user token generation and seamless fest transactions.
- Conduct weekly Arduino workshops, mentoring students on embedded systems and hardware-software integration.

Projects

Dynamic Calorie Tracker — JavaScript, HTML, CSS
- Developed responsive web application for tracking daily calorie and macro intake.
- Implemented DOM-based real-time updates and LocalStorage-powered persistent user history.
- Designed modular architecture for future backend/API integration.

Rock vs Mine Sonar Classification — Python, ML, Scikit-Learn
- Built ML models (Logistic Regression, SVM, KNN, Random Forest) achieving 82.09% accuracy.
- Applied noise removal, feature scaling, and preprocessing to improve generalization.
- Implemented UI for real-time sonar input and instant prediction.

Certifications

Introduction to Machine Learning (NPTEL)
Google Analytics (Google)
Programming in Java (VITyarthi)
Python Essentials (VITyarthi)
Fundamentals of AI and ML (VITyarthi)

Leadership & Achievements

Co-Founder, iCreate Club, VIT Bhopal
Leadership Council Member, E-Cell VIT Bhopal (Smart Hackathon '24)
Project Supervisor, Annual Project Exhibition 2024
Academic Excellence Award — Army Public School, Ambala Cantt