

Arun Adhikari

[Portfolio](#)

Bachelor of Technology

Vishwakarma University, Pune

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[GitHub](#) Profile

[LinkedIn](#) Profile

Computer Science student specializing in Cybersecurity and Machine Learning. Experienced in developing secure applications, anomaly detection systems, and full-stack projects. Passionate about solving real-world problems through innovation and practical implementation.

Education

Bachelor of Technology in Computer Science and Engineering

2022-26

Vishwakarma University, Pune

CGPA: 7.8

Personal Projects

Insider Threat Detection using Machine Learning ([GitHub](#))

- Engineered a user monitoring and logging system using Flask, Socket.IO, and SQLite, enabling real-time tracking of system metrics, user activity, file operations, and removable media events. Integrated anomaly detection with a trained model and a live dashboard with user management and admin control features.
- Python / Flask / Socket.IO / SQLite / psutil / Joblib / HTML-CSS-JS

Website with 2-Step Verification ([GitHub](#))

- Passwords are encrypted with SHA-256 and stored in the database. After a successful password login, an OTP is sent to the user's email for verification. Face login website
- Flask / Visual Studio code / SHA-256

Pharmacy Billing System ([GitHub](#))

- Developed a desktop application using PyQt5 for complete pharmacy management, featuring a point-of-sale (POS) system with barcode scanning, inventory and customer tracking, and automated PDF receipt delivery via email and WhatsApp.
- Technologies:** Python, PyQt5, SQLite, Report Lab, smtplib, Requests, pyzbar, PyInstaller

Face Login([GitHub](#))

- Implemented user login via facial recognition on a website using Haar cascade for frontal face detection and cv2, with Flask for the backend.
- Flask/ Visual Studio Code / Open-CV, Sha-256

Face Recognition System Using Python ([GitHub](#))

- Built software with cv2 and Haar cascade for frontal face detection, using LBPH for recognition. Trained the model by capturing and training images of individuals.
- Python / Visual Studio Code / Open-CV

Experience

Cyber Security Intern

August - October 2025

Georeach Technologies

Skills

Languages: C, C++, Python, HTML, CSS

Databases: SQLite, MySQL

Frameworks & Libraries: Flask, Socket.IO, PyQt5, OpenCV, Report Lab

Cybersecurity Tools: Burp Suite, Nessus, Wireshark, ZAP, Nmap, Aircrack-ng, Nikto, Kali Linux

Core Competencies: Requirement Analysis, Problem Solving, Teamwork, Time Management, Object-Oriented Programming (OOP)

Achievements

- **Visionary Techfest 2023 (Winner)** Conducted by the Visionary Club at VU, where 30+ teams participated. Won first place in the cybersecurity domain by developing a robust multi-factor authentication system that integrated OTP verification via email authentication using Python and Flask.
- **NSD Hackathon 2025 (Winner)** Organized by VU & Teklingo, with participation from 45+ teams. Secured first place in the Design and Web Development domain by developing a pet adoption website within the given time.
- **NSD Hackathon 2025 (Runner-up)** achieved second place in the Machine Learning domain by implementing a network traffic anomaly detection system using the KNN algorithm with an accuracy of 80%.
- **VU Techfest 2024(3rd place)** Smart Inventory Manager for Small Shops using Flask and SQL lite.

Courses and Certifications

Fundamentals of Computer Network Security Specialization/ University of Colorado

4-course specialization covering network vulnerabilities, threat mitigation, cryptographic protocols, and secure network design.

IT Fundamentals for Cybersecurity Specialization/ IBM

4-course specialization covering cybersecurity basics, security policies, network security, and risk management.

Cyber Security/ Kohinoor Institute, Mumbai

Basic concepts of Cyber Security, CIA triad, Windows Server.

Ethical Hacking Cisco