Ayush Monga

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EDUCATION

VIT Bhopal University — 2022-2026
Bachelor of Technology(B.Tech.) in CSE (Specialization in Cyber Security and DIgital Foensics — *CGPA: 8.91/10*

Delhi Public School Bhopal — 2022
12th Standard: CBSE Board — *91%*

Delhi Public School Bhopal — 2020
10th Standard: CBSE Board — *91.2%*

TECHNICAL SKILLS

Languages: Python, C/C++, Java, JavaScript, PHP
Technologies: HTML, CSS, PHP, ReactJS, Kali Linux, Windows, Ghidra, Flare-VM, VirtualBox

WORK EXPERIENCE

Information Security Intern — **Dec 2024 – Feb 2025**
Maulana Azad National Institute of Technology (MANIT), Bhopal

- Worked under faculty guidance on secure coding practices and explored digital forensics tools for data analysis and incident response.
- This internship was part of the ISEA project; later, I conducted a session during the ISEA workshop to share insights and learnings.

PROJECTS

Malware Analysis and Reverse Engineering Using Ghidra | *Kali Linux, Windows, Ghidra, Flare-VM, Oracle VirtualBox*

- Performed static malware analysis on 1 Windows executable using Ghidra, reverse-engineering 50 functions and identifying 10+ suspicious strings and IOCs.
- Analyzed control flow and binary logic to trace key operations such as file access, string obfuscation, and possible C2 (Command & Control) communication.
- Created a technical report outlining findings, including function summaries and a flowchart of malware behavior.

Employee Performance Analysis | *Python, Pandas, Numpy, PowerBI, Excel*

- Analyzed performance data of 100+ employees using Pandas and NumPy to compute key metrics such as average task completion rate, punctuality score, and monthly productivity trends.
- Cleaned and transformed raw Excel datasets (5+ sheets) for analysis, handling missing values, merging records, and generating pivot tables.
- Created interactive Power BI dashboards to visualize KPIs, highlight performers, and support data-driven HR decisions.

Smart ID Attendance System | *Python, Excel*

- Built a Smart ID attendance system using OpenCV for image capture and Tesseract OCR for automated text extraction from ID cards.
- Applied image preprocessing (grayscale, thresholding, noise reduction) to enhance OCR accuracy.
- Integrated system with a database to efficiently record attendance and minimize manual entry.

Lost and Found Portal | *HTML, CSS, JavaScript, PHP*

- Developed a responsive Lost and Found portal with user-friendly interfaces for item reporting and searching.
- Implemented registration, login, and dashboard features using PHP backend and MySQL database.
- Designed modern UI with consistent styling and interactive form validation using HTML, CSS, and JavaScript.

ACHIEVEMENTS

- Achieved a maximum **LeetCode rating of 1565** and solved over **200+** problems.
- Attained a Codeforces rating of **371** (Newbie) and CodeChef rating of **980**.
- **Vice-President** of VITB Mozilla Firefox Club.
- Winner of **Project-Expo** at **VITB Industrial Conclave** for best project under **Cyber Physical System** and **Top 5 overall projects**.
- Cricket Sports Lead and represented University Cricket Team multiple times.

ADDITIONAL

Certifications

- Cyber Security Analyst - IBM
- Java Foundation Associate - Oracle