Akarsh Saklani

📞 9805646641

✉ Akarshsaklani222@gmail.com   in linkedin.com/in/akarsh-saklani   ⌂ github.com/Akarsh-2004

Education

Graphic Era Hill University	2022 - 2026
Bachelor of Technology in Computer Science and Engineering	*Dehradun, Uttarakhand*
SGRR Public School	2022
Intermediate (12th Grade)	*Dehradun, Uttarakhand*
Alpine Public School	2020
High School (10th Grade)	*Nalagarh, Himachal Pradesh*

Projects

PTI
- Developed a Penetration Testing Interface (PTI) to automate vulnerability assessment.
- Integrated multiple cybersecurity tools for streamlined security testing and threat analysis.

AI-Enhanced Intrusion Detection System for OS Security
- Implemented an IDS using Linux Kernel, eBPF, and Syscalls for real-time malware detection and process behavior analysis.
- Integrated FastAPI for backend services and ELK stack for efficient monitoring.

Web App Vulnerability Scanner
- Built a comprehensive web vulnerability scanner that identifies vulnerabilities for a website.
- Automated security assessments for web applications, improving threat detection searches for vulnerabilities like web scraping, etc.

QR and Barcode Classifier and Scanner
- Developed an ML-based QR and barcode classification system using OpenCV, SVM.
- Implemented real-time scanning capabilities for enhanced usability.

Smart Compiler
- Created a smart compiler with advanced error detection, code optimization, and AI-assisted debugging features.
- Integrated AI techniques to enhance compiler efficiency and debugging.

Technical Skills

Languages: Python, C++, C, JavaScript and Java
Technologies: Flask, Django, OpenCV, CUDA and GitHub
Operating Systems: Windows and Linux
Concepts: DSA, Machine Learning, Cyber Security and Web Development

Achievements

- Solved over **550+ problems** on LeetCode, strengthening Data Structures and Algorithms (DSA) proficiency.
- Awarded **Zonal Gold Medal** in IGKO by SOF in 2020.
- Secured a **Silver Medal** in IMO by SOF in 2020.

Social Engagements

- **Open source contributios**
  - Engaged with professionals to contribute for Open Source Projetcs.
- **Club Member, Cyber Security Club, Graphic Era**
  - Volunteered in organizing CTF's events in college.