Anshul

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Education

- **VIT Bhopal University, Sehore, Madhya Pradesh** — ***October 2022 – ongoing***
  B. Tech | Computer Science and Engineering | Cybersecurity and Digital forensics — *8.62/10*
- **Govt. Model Sr. Sec. School, Chandigarh** — **July 2022**
  XIIth | Senior School Certificate Examination | Central Board of Secondary Education — *87%*
- **Guru Nanak Public School, Chandigarh** — **June 2020**
  Xth | Secondary School Examination | Central Board of Secondary Education — *83%*

Technical Skills

Programming: Python, Java, HTML, CSS, JavaScript, C++.

Technical Skills: Data Structures, Algorithms, Natural Language Processing, Machine Learning, Security Software Development, Networking, Penetration Testing.

OS: Linux (Kali), Windows (XP,7,10,11)

Personal Projects/Awards & Achievements

Keylogger Detector Using Behavioral Analysis | HTML, CSS, JS, PHP, AIP, SQL, AIML — **September 2023**

- Developed a system to enhance digital security by **detecting keyloggers** through behavioral analysis.
- Utilized typing speed and key sequence **monitoring to detect anomalies** and potential keylogger threats.
- Implemented additional features such **as password safety and data integrity** through stringent password parameters.
- Provided comprehensive **guidance on keylogger removal and website monitoring** for continuous security enhancement.

DDoS Attack Detection and Mitigation using SDN | Python, Cybersecurity, Cloud Computing — **Jan-2024**

- **Developed a comprehensive system leveraging Software-Defined Networking (SDN) and machine learning algorithms** to detect and mitigate Distributed Denial of Service (DDoS) attacks. The project focused on enhancing network security by utilizing SDN's capabilities to separate the control and data planes, enabling centralized and programmable management.
- **Implemented a multi-algorithm approach, including Decision Tree, KNN, Random Forest, and Artificial Neural Network (ANN),** to accurately classify and respond to network traffic. The system utilized cloud-based infrastructure for real-time data processing and feature selection, ensuring efficient and scalable analysis.
- **Successfully tested and validated the system using the CIC-IDS2017 dataset in a controlled network environment,** achieving high detection accuracy and precision. The deployment demonstrated significant improvements in identifying and mitigating DDoS attacks, ensuring network resilience and service availability.

Certificates

The Bits and Bytes of Computer Networking (Coursera)

Cyber for HER hackathon (Data Security Council of India)

Cyber Security Analyst (IBM)

Mern Full Stack Certification program (Ethnus)