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Vanshika Bansal

Technical Skills: Cyber Security, Metasploit, Recon-ng, SQLmap, Nmap, Java, C++, MySQL.

Certification:

- Python Basics -Futureskillsprime May 2022,

- Foundations of cybersecurity – Cisco - Futureskillsprime Jul 2022
- Cyber Threat Intelligence (SIEM Analyst with IBM QRADAR) –Smartbridge June 2023

EDUCATION

Board	Tenure	Educational institution	CGPA/Percentage
B. Tech (CSE)	Sep20 –Ongoing	Vellore Institute of Technology, Bhopal	8.59
Class 12	2020	Sophia Girls' School, Meerut	80.60%
Class 10	2018	Sophia Girls' School, Meerut	94.83%

ACADEMIC PROJECTS

Cybersecurity	**Cyber Threat Environment (Sep 2021 - Oct 2021)** - This project is about the cyber threat environment of the current cyberspace. It uses different open-source vulnerability testing tools to test various popular websites like Flipkart, amazon, tesla, etc. - Technology: Open-source vulnerability tools like acunetix, Arachni, Netspark, and Nmap. - Role: Tester
Cybersecurity	**Cambridge Analytica** (Jul 2022 – Aug 2022) - This project analysed the various causes that led to the Cambridge Analytica data breach scandal and its consequences. It also shows how can one duplicate the incident. It also proposes possible prevention techniques for any future repeats. - Technology: Encryption technologies - Solo project
DBMS	**Societal** (Feb 2023 – May 2023) - Description: An online charity portal to facilitate charity throughout the notion by introducing donors and the needy to each other. - Technology: ReactJS, MongoDB, JavaScript, PHP, HTML/CSS - Team Project: 8 - Role: Conducted research on the existing models, summarizing their strengths and weaknesses to make our website stand out. - Worked on connecting the frontend to the backend and database with the help of MongoDB. - Secured the user credentials by implementing a hashing algorithm in the database.
Cybersecurity	**Vulnerability Exploitation and Patching** (July 2023 – Sep 2023) - explores existing problems related to vulnerability exploitation and proposes solutions, while also conducting theoretical analysis, experimental investigations, and evaluating advantages and disadvantages. - Technology: Kali Linux/Windows operating system, VMware - Team project – 3 members
Cybersecurity	**DDOS detection using traditional ML algorithms** (Oct 2023 - Ongoing) - Machine learning algorithms offer a promising approach to DDoS detection, as they can learn to identify patterns in network traffic that are indicative of an attack. - This project will evaluate the effectiveness of traditional machine learning algorithms for DDoS detection. The project will focus on the following algorithms: - K-nearest neighbours (KNN), Support vector machines (SVM), Random forests, Naive Bayes, Decision tree. - The algorithms will be evaluated using the CICDDOS2019 dataset. Further, Exploratory Data Analysis and normalization will be used to evaluate the performance of these algorithms.

EXTRA-CURRICULARS AND ACHIEVEMENTS

Extracurricular	▪ Participant, Advitya 23 Badminton competition (Jan'23) ▪ First place, inter-house march past Independence Day (Aug'19)
Responsibilities	▪ Captain, Emerald House, School student council (April 2019-Jan 2020) - Organized and conducted March past on Independence Day, Republic Day as well as Annual Sports Day. Conducted multiple meetings and seminars with around 500 participants in each and created awareness of women empowerment, cybersecurity, career development, first-aid, and emergency preparedness. Organized a free dental health inspection for the entire school in collaboration with the Subharti Medical College. ▪ Vice-Captain, Sapphire House (April 2018-March 2019)

CO-CURRICULAR

Learning	TryHackMe, HackTheBox
Hobbies	▪ Avid Book Reader – Read numerous novels ▪ Art enthusiast- mangas, abstract art ▪ Skating
Languages	English, Hindi