

Mannat Pal

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EDUCATION

Vellore Institute of Technology Bhopal University, Bhopal <i>B.Tech, Department of Computer Science and Engineering</i>	<i>October, 2022 – Ongoing</i> <i>CGPA - 8.82</i>
MASD Public School, Panipat <i>Class XII Central Board of Secondary Education (CBSE)</i>	<i>May, 2019 – March, 2021</i> <i>Percentage: 86.4%</i>
Airforce School, Gorakhpur <i>Class X Central Board of Secondary Education (CBSE)</i>	<i>August, 2017 – April, 2019</i> <i>Percentage: 89.4%</i>

PROJECTS

Malware Analysis for Android Apk using Machine Learning <i>Python, Androguard, Scikit</i>	<i>September, 2025</i>
<ul style="list-style-type: none">Conducted static (80%) and dynamic (20%) analysis on Android APKs to detect malicious behavior and code anomalies. Extracted key features such as permissions, API calls, and intent filters for machine learning-based classification.Implemented Random Forest, XGBoost, and Logistic Regression models, achieving 95% detection accuracy on benchmark datasets. Automated the feature extraction and risk scoring process, reducing manual analysis time by 60% and improving consistency across malware samples. Available here: Malware Analysis GitHub	
Portfolio <i>Html, CSS, Javascript</i>	<i>January, 2024</i>
<ul style="list-style-type: none">Developed a personal portfolio website showcasing projects, skills, and experience. Available here : https://github.com/Mp771/portfolio	
Encryption & Decryption Algorithms <i>Python</i>	<i>August, 2023</i>
<ul style="list-style-type: none">Implemented a variety of encryption algorithms including RSA, Diffie-Hellman, AES, IDEA, HMAC, Rail Fence, Row Transposition, and ADFGVX to demonstrate secure data handling techniques.Designed and tested each algorithm's encryption and decryption pipeline, ensuring correctness and efficiency while illustrating core cryptographic principles.Enhanced understanding of cryptography by comparing algorithm strengths, weaknesses, and real-world applicability; code and documentation available on GitHub: Encrypt/Decrypt Algorithms Repository.	

TECHNICAL SKILLS

Programming Languages: C/C++, Python, HTML5, CSS, MySQL
Core CS Skills: Object-Oriented Programming, Computer Networking, Database Management Systems, Operating Systems
Developer Tools: GitHub, VSCode, Docker, AWS, SQL Developer
Cybersecurity & Malware Analysis: Androguard, APKTool, DroidBox, Cuckoo Sandbox, Jadx, Burp Suite, OWASP ZAP, Metasploit, Nmap, Wireshark, SQLMap, Nikto
Cryptography & Security: AES, RSA, HMAC, IDEA, Rail Fence, Row Transposition, Hashing (MD5, SHA-1, SHA-256)
Machine Learning: Scikit-learn (Decision Tree, Random Forest, Naive Bayes), XGBoost, Pandas, Numpy, Matplotlib

CERTIFICATIONS

The Bits and Bytes of Computer Networking <i>Offered by Google</i>
Tools of the Trade: Linux and SQL <i>Offered by Google</i>

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Event Management Lead <i>April 2024 – March 2025</i>	Mozilla Firefox Club, VIT Bhopal <i>Organized and managed events related to web technologies.</i>
Content and Creation Lead <i>December 2022 – April 2024</i>	Cyber Warriors, VIT Bhopal <i>Led content creation and cybersecurity awareness initiatives</i>
Content Lead <i>December 2023 – May 2024</i>	Linux Club, VIT Bhopal <i>Managed technical content and conducted workshops on Linux and open-source tools.</i>