ABISHEK KUMAR D

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SUMMARY

Ambitious Cyber Security Analyst with hands-on experience in system monitoring, threat detection, and vulnerability assessment through TryHackMe labs. Skilled in Nmap, Wireshark, OWASP ZAP, and Hydra with exposure to Linux/Windows security. Strong foundation in data analytics and cryptographic research, with a focus on SOC operations and incident response.

TECHNICAL PROFICIENCIES

- **Security Tools:** Burp Suite, Metasploit, Nmap, Wireshark, OWASP ZAP
- **Operating Systems:** Linux, Windows
- **Programming & Scripting:** Python, Java, DSA
- **Web Development:** HTML, CSS
- **Database:** MongoDB, SQL

TECHNICAL PROFICIENCIES

- Critical Thinking
- Communication Skills
- Attention to Detail
- Adaptability
- Team Collaboration
- Self-Learning
- Problem-Solving
- Time Management
- Patience under Pressure

EDUCATION

Vellore Institute of Technology *Vellore, TN*
MSc (5 Yr. Integrated) Computational Statistics and Data Analytics **Sep 2020 – May 2025**
Vidyaniketan Matriculation Higher Secondary School *Vellore, TN*
Higher Secondary Certificate (HSC – 12th – State Board) **June 2019 – March 2020**
Secondary School Leaving Certificate (SSLC – 10th – State Board) **June 2017 – March 2018**

PROJECTS

Fan Graph Encryption via Discrete Logarithm Problem | Cryptography, Encryption, Decryption, DLP, DDLP, Fan Graph
Case Study July 2024 – May 2025

- Developed a cryptographic model using Fan Graphs and the Discrete Logarithm Problem (DLP) for secure message encryption and decryption.
- Integrated Dynamic DLP, DDLP concepts to enhance key complexity and encryption strength.
- Implemented the system using Python, applying graph theory to cryptographic operations.
- Achieved a lightweight and secure encryption method resistant to basic cryptanalytic attacks.

Identifying Hotspot of waterborne disease in South India. | Excel, SaTScan, Basic concepts of stats
Case Study April 7th 2024

- Analyzed regional disease data using Excel and applied basic statistical methods.
- Used SaTScan software to perform spatial analysis and detect statistically significant disease clusters (hotspots).
- Interpreted results to pinpoint high-risk zones and potential environmental or infrastructural causes.
- Provided insights that could assist public health planning and targeted interventions.

Identifying Hotspot of waterborne disease in Tamil Nadu. | Excel, SaTScan, Basic concepts of stats
Case Study July 13th 2023

- Collected and organized regional health data in Excel to track occurrences of waterborne diseases across districts.
- Applied basic statistical techniques to analyze disease frequency and distribution.
- Used SaTScan to perform spatial analysis and identify significant disease clusters (hotspots) within Tamil Nadu.
- Helped highlight high-risk areas, supporting targeted public health strategies and preventive measures.

PRACTICAL CYBERSECURITY LABS

- **Foundations:** Introduction to Cyber Security, Security Principles
- **Networking & Systems:** Network Fundamentals, Linux Fundamentals, Windows Fundamentals
- **Web & Pentesting:** How the Web Works, Pentesting Fundamentals, Introduction to OWASP ZAP, Vulnversity
- **Tools & Techniques:** OhSINT, Nmap (Live Host Discovery), Hydra

LANGUAGES

- Tamil, English

CERTIFICATIONS

- Pre-Security **– [TryHackMe]**
- Data Structures & Algorithms (DSA) **– Java - [Great Learning]**
- Java Programming **– [Great Learning]**
- Front-End Development **– HTML & CSS - [Great Learning]**
- Introduction to Databases & SQL **– [Great Learning]**
- MongoDB Essentials **– [Great Learning]**