Manan Mandal

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SUMMARY

Passionate about cybersecurity and AI, I bring a strong foundation in threat detection, secure system design, and real-time data analysis. With hands-on experience across tools like Splunk, Burp Suite, and TensorFlow, I thrive at the intersection of security and innovation. Committed to continuous learning, I aim to build resilient systems that defend against tomorrow's digital threats.

EXPERIENCE

CYBERSECURITY INTERN, Skill Vertex, Remote   **Jul 2022 — Aug 2022**
- Conducted a comprehensive vulnerability assessment on Metasploit able 2 using tools like Nmap, OpenVAS, and Metasploit.
- • Gained hands-on experience in manual and automated vulnerability scanning, using Exploit-dB, CVE databases, and Searchsploit.

Software Developer Intern, IBM, Remote, India   **Jan 2025 — May 2025**
• Built a CNN-based model using TensorFlow and OpenCV to detect and classify facial emotions in real time. Performed image preprocessing, feature extraction, and hyperparameter tuning to achieve over 90% accuracy on validation datasets.
- Focused on model training, evaluation, and optimizing performance across diverse facial expression inputs.

EDUCATION

Uttaranchal University, **Dehradun, India** - *B.SC., INFORMATION TECHNOLOGY*   **May 2023**
During my BSc in Information Technology, I served as the Vice President of the Competitive Cell, where I led academic initiatives including national-level quizzes, debates, and technical events. This experience strengthened my leadership and organizational skills while fostering collaboration among diverse student groups and promoting a culture of academic excellence.

University of Petroleum and Energy Studies, **Dehradun, India** - *MCA, CYBERSECURITY & FORENSIC*   **May 2025**
Completed an MCA with specialization in Cybersecurity and Digital Forensics, gaining hands-on experience in threat analysis, vulnerability assessment, and incident response. Developed a strong foundation in digital forensics, risk management, and implementation of security protocols. The program emphasized practical application through real-world projects and tools, enhancing proficiency in system protection, data integrity, and cyber investigation methodologies.

SKILLS

Tools	:	Burp Suite, Nessus, Wireshark, Metasploit, Splunk, Snort, Packet Tracer, Arduino Software
Security Concepts	:	Network Security, Vulnerability Assessment, Penetration Testing, Incident Response, SIEM, SOC Monitoring
Programming & Scripting	:	Python, Bash, SQL, HTML/CSS
AI & ML	:	OpenCV, Pandas, NumPy, Scikit-learn, Facial Recognition Algorithms, TensorFlow
Cloud & Systems	:	AWS (Basics), Linux Administration, Windows Security
Languages	:	English, Hindi, Bengali, German (Basic)

CERTIFICATIONS

Fortinet Certified Associate in Cybersecurity, **FORTINET**   **Jul 2024**
Cybersecurity Essentials, **CISCO**   **Aug 2023**
Network Security & Database Vulnerabilities, **IBM**   **Apr 2023**

VOLUNTEERING

Cyber Volunteer , National Cyber Crime Reporting Portal, India   **Mar 2024 — Present**

PROJECTS

Data Leakage Detection, UPES, Link   **Sep 2024 — Dec 2024**
- **Developed a web-based Data Leakage Detection System** using **PHP, MySQL, JavaScript, Bootstrap, and HTML5** to track unauthorized data dissemination.
- **Designed a dynamic and real-time monitoring system**, integrating both **static and behavioral analysis** for enhanced data security.

Emotion Detection using Facial Recognition , IBM, Link   **Jan 2025 — May 2025**
- Applied techniques such as data augmentation, grayscale normalization, and dropout to improve model robustness.
- Evaluated performance using confusion matrix and accuracy metrics, fine-tuned the CNN to enhance prediction reliability across diverse expressions.