

# Eklavya Mathur

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## SUMMARY

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Cybersecurity enthusiast with expertise in developing security-focused solutions. Proficient in Python, SQL, and various web technologies with strong communication and collaboration skills. Committed to enhancing cyber safety through innovative projects and continuous learning in the cybersecurity domain.

## TECHNICAL SKILLS

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**Programming Languages:** Python, C++, SQL, HTML5, CSS3, Bash/Shell Scripting

**Frameworks & Libraries:** TailwindCSS, Bootstrap

**Tools & Platforms:** Git, GitHub, VS Code, Firebase, AWS (EC2, S3), Vercel

**Cybersecurity:** Network Security, Vulnerability Assessment, Security Protocols

## PROJECTS

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### BitWipers

*Secure Data Wiping for E-Waste Recycling*

Python, Cryptography  
Smart India Hackathon 2025

Developed an open-source tool to enable secure IT asset recycling by addressing data privacy fears, tackling India's 50k Cr e-waste crisis.

Engineered core wiping engine with cryptographic verification.

Designed a user-centric GUI for one-click operation and generated tamper-proof PDF/JSON certificates with SHA-256 verification.

Implemented cross-platform support (Windows/Linux) to maximize accessibility and promote safe device disposal.

### DNS Traffic Analyzer

*Security Analysis Tool*

Python, Scapy, NumPy, ReportLab  
Personal Project

Developed a Python-based tool to capture and analyze DNS traffic for security threat detection.

Implemented packet capture over UDP port 53 and calculated Shannon entropy to identify suspicious domain patterns

Designed DNS flag parsing and comprehensive reporting system with JSON and PDF outputs

Enabled detection of DNS tunneling and network misconfigurations through automated analysis

### WeatherWise – Real-Time Weather Forecast App

*Personal Project*

React, Vite, OpenWeatherMap API  
Aug 2025 – Present

Built a modern weather forecast application delivering real-time weather data with a clean, minimalist UI/UX

Utilized the OpenWeatherMap API to provide accurate, location-based weather updates

Optimized build process and app performance using Vite and modular React components

### Focusly – To Do List Application

*Personal Project*

React, Tailwind CSS, LocalStorage  
Aug 2025 – Present

Developed a responsive task management application with features to add, toggle, and delete tasks

Implemented localStorage for persistent task management across sessions

Showcased modern React practices using hooks for efficient state and UI handling

## EXPERIENCE

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### Research Intern

*Defence Research and Development Organisation (DRDO)*

February 2026  
Jodhpur, Rajasthan, India

- Conducted an in-depth study and analysis of Decision Support Systems (DSS) for disaster management applications
- Reviewed and analyzed research papers on disaster relief logistics, nuclear emergency response, and radiological consequence assessment
- Examined DSS tools including GIS platforms, evacuation modelling systems, and radiological emergency systems such as ARGOS
- Developed analytical documentation and technical reports summarizing DSS architectures, models, and operational workflows
- Proposed an AI/ML-enabled DSS framework improving evacuation planning efficiency and resource allocation accuracy

## EDUCATION

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**VIT Bhopal University**

*Integrated M.Tech. - Computer Science and Engineering (Cyber Security) (CGPA: 9.13 )*

2023 – Present

*Bhopal, Madhya Pradesh*

**Delhi Public School, Jodhpur**

*Senior Secondary Education (Class 12: 86%)*

2023

*Jodhpur, Rajasthan*

**Delhi Public School, Jodhpur**

*Secondary Education (Class 10: 96%)*

2021

*Jodhpur, Rajasthan*

## CERTIFICATIONS

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Google Cybersecurity Professional Certificate, Coursera

The Bits and Bytes of Computer Networking, Coursera

Introduction to Cybersecurity, Cisco Networking Academy