

# Madhumitha K

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## PROFILE SUMMARY

As a Computer Science student passionate about Cybersecurity & AI, with foundational skills in network security, ethical hacking, and machine learning. Actively honing expertise through coursework, online labs, and CTF challenges. Eager to apply problem-solving skills to real-world security challenges and contribute to AI-driven defense solutions. Seeking internships or entry-level roles to grow hands-on experience in safeguarding digital systems.

## PROJECTS

### E-FARMING SYSTEM | MINI-PROJECT

2023 | Src campus

- Designed an E-Farming System for direct farmer-to-buyer sales.
- Ensured secure transactions with authentication and market insights.
- Integrated real-time pricing and e-learning for farmers.
- Tech Stack: **Python Flask, MySQL**.

### VIGILEYE | AI-POWERED SUSPICIOUS ACTIVITY & WEAPON DETECTION SYSTEM

March 2025

- Developed a real-time surveillance analyzer that scans CCTV footage using YOLOv9 to detect weapons(guns, knives) with 80% accuracy.
- Automated video trimming with FFmpeg by extracting timestamps of flagged events, generating condensed alert clips for security review.
- Built an interactive frontend to display threats, review clips, and manage outputs.
- Impact: Reduces manual monitoring time by 60% by focusing only on high-risk segments.
- Tech Stack: **Python, YOLOv9, OpenCV, FFmpeg, Flask, HTML/CSS**

## EDUCATION

### KUMARAGURU COLLEGE OF TECHNOLOGY

MASTER OF COMPUTER APPLICATION

Sem.GPA : 8.53 | 2024-2026

### SASTRA DEEMED TO BE UNIVERSITY

BACHELOR OF COMPUTER APPLICATION

Cum.GPA : 7.05 | Grad: July 2023

### EVEREST KENBRIDGE SR.SEC SCHOOL

SSC | PERCENTAGE: 70.4 | GRAD:2020

### NAPAC MATRICULATION AND HR.SEC SCHOOL

SSLC | PERCENTAGE: 91.2 | GRAD:2018

## CERTIFICATION

- Ethical Hacking- **Infosys Springboard**
- Automation Techniques in RPA [UiPath] – **Coursera**
- Soft skills and Development -**NPTEL**

## LOCATION

Coimbatore-641006,  
TamilNadu

## SKILLS

### PROGRAMMING

Backend:

**Java | C | Python**

Database:

**MySQL | PL/SQL**

Tools:

**colab | Nmap | Nessus**

### TECHNOLOGY

Git/Github • Linux

Windows • Automation

## COURSEWORK

### GRADUATE

(Teaching Assistant)

Analysis of Algorithms

Data Analysis

Artificial Intelligence

CyberSecurity

Secure Software Development

## INTERESTS

Problem Solving

Cybersecurity Research

AI Exploration

Development

## LINKS

Github:// **madhumitha**

LinkedIn:// **madhumitha**

## SOFT SKILLS

Adaptability

Time Management

Attention to Detail

Optimal Learning and improvement