

# SIVARANJANI D

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## Education

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**Vellore Institute of Technology, Bhopal**

**Oct 2020 – June 2025**

*Integrated M.Tech in Computer Science and Engineering specialization in Cyber Security*

*CGPA : 8.62*

## Relevant Coursework

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|------------------------|---------------------------|-----------------------|-----------------------|
| • Cyber Security       | • Vulnerability           | • penetration testing | • Security Compliance |
| • Information Security | • Enterprise Architecture | • Cloud Computing     | • Incident Response   |

## Projects

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**Authentication Using Keystroke Dynamics** |

**Jan 2021**

- Designed a keystroke dynamics-based authentication, reducing fraud and enhancing security.
- Developed an advanced user authentication mechanism employing typing speed, rhythm, and keypress time analysis, leading to increase in resistance against spoofing compared to traditional systems.
- implemented system is more resistant to spoofing than traditional password-based authentication systems, as it is difficult for an attacker to mimic the typing patterns of a legitimate user

**AI based System for accident and theft detection** | *Python, OpenCV, API Integration*

**April 2023**

- Simulated ADXL335 accelerometer using Raspberry Pi and MCP3208 ADC in Proteus for crash detection.
- Integrated ADXL335, GPS, and Raspberry Pi for real-time crash detection, and used Twilio API for SMS alerts
- Developed fast, accurate face recognition in Python to enhance vehicle security by restricting access.

**Intrusion Detection in Cloud Computing** | *SNORT , Cloud Services*

**NOV 2023**

- Technology: Utilized Snort and cloud services for robust intrusion detection, effectively fortifying cloud security. Proactive threat identification showcased expertise in intrusion detection and cloud protection .
- Results: Successfully detected and responded to security threats within the cloud infrastructure, showcasing the project's effectiveness in bolstering the security of cloud-based systems. The project emphasizes skills in intrusion detection, cloud security, and proactive threat mitigation.

## Technical Skills

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**Cybersecurity:** Vulnerability Management, Penetration Testing, Risk Management, Compliance

**Tools and Technologies :** Metasploit, Wireshark, SNORT, Kali Linux, Burp Suite, Cloud Computing (AWS)

**Programming :** Python

**Soft Skills :** Strong communication, teamwork, ability to explain technical concepts to non-technical audiences

## Certifications

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- Google Cyber Security Professional Certificate.
- Digital Forensics for Pentesters, EC-Council.
- Practical Web Application Penetration Testing, EC-Council.