

# Sarthak Gupta

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## Education

**VIT Bhopal University** Bhopal, Madhya Pradesh  
B. Tech Sep 22 – May 26 Cumulative GPA: 8.34/10  
Computer Science and Engineering, Specialization in Cyber Security and Digital Forensics

### 12<sup>th</sup> Standard

**Macro Vision Academy** Burhanpur Madhya Pradesh  
CBSE Percentage: 75% Jul 22

### 10<sup>th</sup> Standard

**Macro Vision Academy** Burhanpur Madhya Pradesh  
CBSE Percentage: 73% Jul 20

## Projects

**IoT based Vulnerability Scanner and Automated exploitation Framework** Aug 23- Oct 23

- Description:
  - The IoT-Scanner is an innovative project that addresses the growing concerns regarding the security of Internet of Things (IoT) devices. With the rapid expansion of IoT devices across various industries.
  - AISE is a comprehensive tool designed to automate the detection of IoT devices on a network, identify vulnerabilities, and provide mitigation strategies.
- Technology/Tools:
  - CenSys, Shodan, Hydra, Nmap, Masscan

**Fine-tuned Vulnerable System for Penetration Testing Education in Universities** Feb 24 – May 24

- Description:
  - This project focuses on improving cybersecurity education by creating intentionally vulnerable virtual machines (VMs) for practical training.
  - Through pre-configured VMs, students gain hands-on experience in penetration testing.
  - The project aims to address challenges in setting up virtual environments for cybersecurity education and offers a secure, customizable, and educational platform.
- Technology/Tools:
  - Nmap, Nikto, Wireshark, Burp Suite, SMB Connectors, C++, Python, NetCat, HashCat

**Face Detection Attendance System** Nov 24 – Jan 25

- Description:
  - Developed an automated attendance system using facial recognition with Python and OpenCV.
  - Designed an interactive GUI with Tkinter for seamless user interaction.
  - Integrated SQL database for efficient storage and retrieval of attendance records.
  - Handled complete end-to-end development independently, including front-end and back-end
- Technology/Tools:
  - Python, Tkinter, OpenCV, NumPy, SQL

## Skills and Certifications

**Technical Skills:** Java, Python, HTML, CSS, C++, Flutter, Tkinter.

**Security Tools** – Autopsy, Recon-ng, Maltego, N-map, Censys, NumPy, WireShark, Linux, Burpsuit.

**Soft Skills:** Communication, Teamwork, Leadership, Problem-solving, Conflict-Management

**Languages:** English, Hindi.

### Certifications & Training:

- The Bits and Bytes of Computer Networking (Coursera)(GOOGLE) – Dec 23
- Foundations of Cyber-Physical Systems (NPTEL) – Secured 63% Certificate – Apr 24.
- Foundation of Cybersecurity(Coursera)(Google)
- IBM Cyber Security Analyst – Apr 25