

Shridhar Pandey

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EDUCATION

- **VIT Bhopal University** Bhopal, Madhya Pradesh, India
5 Year Integrated M.Tech - Computer Science (Cybersecurity); CGPA: 9.07/10 2020 - 2025
- **Kendriya Vidyalaya N.E.R** Bareilly, India
Class XII (PCM); Percentage: 80.5% Apr. '20

SKILLS SUMMARY

- **Programming:** Python, MySQL, C++
- **Frameworks:** Scikit-learn, OpenCV, OpenCL, CUDA, Firebase, PyTorch, TensorFlow, Flask
- **Tools:** Jupyter Notebook, Google Colab, Kubernetes, Docker, PostgreSQL, PowerBI
- **Platforms:** Vscode, AWS, Linux, Web, Windows, Arduino, Raspberry Pi
- **Soft Skills:** Analytical thinking, Collaboration, Leadership, Event Management, Presentation skills, Effective communication

EXPERIENCE

- **Remarked Skills** Online
Cybersecurity Intern Jun.'22 - Aug.'22
 - **RakshakNetra Project:** Developed and implemented a honeypot-based network security solution, decreasing false positives by 29%.
 - **Cybersecurity Enhancement:** Diagnosed and addressed vulnerabilities in live environments, enhancing system safety by 25%.
 - **Team Collaboration:** Directed vulnerability assessments and penetration testing across 50+ systems, employing tools like Wireshark, Metasploit, and Nessus, leading to a 30% increase in team efficiency and enhanced security outcomes

PROJECTS

- **Hydro-Optical Image Enhancement** Deep Learning
present
 - **Overview:** Engineered a solution to improve underwater images, achieving up to a 70% increase in clarity using advanced deep learning techniques.
 - **Achievements:** Applied Reinforcement Learning and Deep Q-Networks (DQN) to optimize image processing, boosting algorithm efficiency by 25%..
 - **Technologies:** Python3, TensorFlow, Reinforcement Learning, Deep Q-Networks (DQN).
- **Dockerized Flask with MySQL Integration (Containerization, DevOps)** Containerization, DevOps
Dec. '23
 - **Overview:** Architected a containerized Flask application with a MySQL backend, automating deployment and reducing setup time by 60%.
 - **Achievements:** Utilized Docker and Kubernetes to streamline application deployment and management.
 - **Technologies:** Flask (Python 3), MySQL, Docker, Kubernetes - deployed across 20+ instances.
- **Drone Detection System (Developer, System Architect)** Developer, System Architect
Jun. '23
 - **Overview:** Designed a drone recognition framework with OpenCV and YOLO, increasing airspace safety by 40% through automation and cutting manual oversight by 70%.
 - **Achievements:** Achieved 98% accuracy in distinguishing drones from birds and optimized surveillance efficiency by 60%, reducing costs.
 - **Technologies:** Python3, OpenCV, YOLO.
- **DAN-Integrator-Unified-Detection** Network Security, ARP Spoofing, Intrusion Detection
Oct. '22
 - **Overview:** Constructed a tool to monitor ARP traffic in LANs, successfully identifying and alerting on over 3 different attack types.
 - **Achievements:** Shortened threat response time by 40% with real-time detection, employing Scapy and Python for enhanced network security.
 - **Technologies:** Python 2.8, C/C++, Scapy, Network Security, ARP Protocol, Linux.

CERTIFICATIONS

- AWS Certified Cloud Practitioner (AWS) - 2023
- AWS Fundamentals Specialization (Coursera) - 2023
- Advanced Google Analytics (Google) - 2022

EXTRACURRICULAR EXPERIENCE

- **President, VIT Bhopal Cyber Warriors Club** Bhopal, India
Led the club and organized 9-10 cybersecurity events, fostering skills and awareness among students. Jun.'23 - Present
- **Event Team Head, Robotics Club, VIT Bhopal** Bhopal, India
Coordinated a robot car race with 15+ teams, increasing participation by 95%. Sep.'23 - Feb.'24