

# DEO SAGAR KUMAR

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## EDUCATION

<b>Bachelor of Technology in Computer Science Engineering</b> <i>VIT Bhopal University, Bhopal, Madhya Pradesh</i>	2022–2026 <i>CGPA: 8.95/10.0</i>
<b>Higher Secondary Certificate (Class 12)</b> <i>DAV Public School Hazaribag, Jharkhand</i>	2021 <i>Percentage: 91%</i>
<b>Secondary School Certificate (Class 10)</b> <i>DAV Public School Tapin North, Ramgarh, Jharkhand</i>	2019 <i>Percentage: 92.8%</i>

## TECHNICAL SKILLS

<b>Programming Languages:</b> C++, Python, JavaScript
<b>Cybersecurity Concepts:</b> Network Security (Firewalls, VPNs, IDS/IPS), Information Security Principles (CIA Triad), Security Controls (Preventive, Detective, Corrective), Threat Modeling, Vulnerability Assessment & Penetration Testing, Threat Analysis, Risk Assessment, Incident Response, Threat Hunting
<b>Tools &amp; Utilities:</b> Wireshark, Nmap, Burp Suite (Community), Scapy, PyShark, TensorFlow, Flask, MediaPipe, OpenCV
<b>Technologies &amp; Concepts:</b> Computer Vision, Problem Solving (DSA), Secure Coding Practices, Threat Intelligence Awareness, SIEM Basics

## PROJECTS

<b>NIDS – Network Intrusion Detection System</b>   <i>Cybersecurity Application with Real-time Packet Analysis</i> <u><a href="#">GitHub Repository</a></u> <ul style="list-style-type: none"><li>Built a Python-based IDS using Scapy &amp; PyShark for real-time packet sniffing and threat detection</li><li>Designed a rule-based alert engine to flag suspicious IPs, ports, and protocols (CIDR supported)</li><li>Developed a GUI dashboard for monitoring, packet inspection, and HTTP/TLS stream analysis</li><li>Enabled PCAP saving, rule reloading, and payload extraction for forensic investigation</li></ul>
<b>WAFinity – Advanced Web Application Firewall</b>   <i>AI-powered Web Security</i> <u><a href="#">GitHub Repository</a></u> <ul style="list-style-type: none"><li>Built a Python/Flask-based WAF to protect against SQL Injection, XSS, and other OWASP Top 10 threats</li><li>Added ML-driven anomaly detection to catch zero-day, obfuscated, and encoded attacks</li><li>Designed a responsive UI for real-time traffic monitoring and interactive security insights</li><li>Implemented a hybrid detection engine (signatures + ML) for stronger web application protection</li></ul>
<b>Hashtakshar – Indian Sign Language Recognition System</b>   <i>Computer Vision and Deep Learning Application</i> <u><a href="#">GitHub Repository</a></u> <ul style="list-style-type: none"><li>Built real-time Indian Sign Language gesture recognition system using computer vision and deep learning techniques with custom dataset creation and preprocessing</li><li>Executed skeletal keypoint detection using MediaPipe and OpenCV for accurate hand gesture tracking and stick figure representation for improved model training</li><li>Built and trained deep neural networks using TensorFlow frameworks, achieving 90% accuracy in gesture classification across 26 alphabetic signs</li></ul>

## ACHIEVEMENTS AND CERTIFICATIONS

<ul style="list-style-type: none"><li>First Runner-Up at <b>Zelestra X AWS ML Ascend Challenge 2025</b>, selected from 1500+ teams nationwide.</li><li>Top 10 Finalist at <b>HackXplore 2025, SPIT Mumbai</b>, among 325+ competing teams.</li><li>2nd Runner-Up at <b>Inter-College Cyber CTF 2025</b>, demonstrating skills in pentesting, cryptography, and exploitation among 200+ participants.</li><li>Top 10 Finalist at <b>Odoo Hackathon 2025</b>, selected from 20,000+ participants in a 24-hour innovation challenge.</li></ul>
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## LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

<ul style="list-style-type: none"><li>Social Media Co-Lead, Eureka Club VIT Bhopal – Led promotional campaigns for Advitya-2025 festival, managing content strategy and digital outreach reaching 5000+ students and external participants</li><li>CCL Merit Scholarship Recipient (2022–2024) – Awarded merit-based scholarship by Central Coalfields Limited for maintaining consistent academic excellence and leadership qualities over two consecutive years</li></ul>
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