

AVINASH KUMAR SINGH

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EDUCATION

VIT Bhopal

2023 – 2027

B.Tech - Computer Science and Engineering (Minors in Cybersecurity and Digital Forensics)

CGPA- 7.64

COURSEWORK

Data Structure and Analysis of Algorithm Methodologies & Concepts: System Architecture, Git, AWS Security Services, Risk Assessment, Incident Response

Technologies/Framework/Practices: React, Node.js, SDLC, Security, Application Resiliency , MongoDB , PostgreSQL

Coursework: Object-Oriented Programming, Computer Networks, Database Management Systems, Operating Systems, Web Security ,Forensic Chemistry, Digital Forensics , Cyber Threat and Analysis , Software Vulnerability Testing , Ethical Hacking

WORK EXPERIENCE

Redynox - Cybersecurity Intern [Remote]

JUN, 2025

- hands-on experience in key cybersecurity areas such as network security, vulnerability assessment, and penetration testing.
- Worked on real-world cybersecurity projects alongside industry professionals to strengthen technical and analytical skills.
- Learned effective incident response practices, including threat detection, mitigation, and reporting.

PROJECTS

Astu Credit - Fintech Case Study

Apr, 2025 - Jun, 2025

- Conducted an in-depth case study to address low user engagement while maintaining the prevailing UI.
- Analyzed and interpreted bounce rates using SQL PowerBI, deriving key insights to guide decision-making.
- Devised a gamification strategy featuring Fixed Deposit avatar rewards, thus boosting engagement by 17%.

Bata Product Management Case Study — PM School Competition

May, 2024 - Jul, 2024

- Achieved estimated 32% higher conversion rates and increased the customer engagement for online platform.
- Conducted user survey & interviews of 50+ users to understand their needs & behavior towards industry.
- Designed & prototyped UI/UX features to improve user buying behavior, with clear metrics to measure success.

Flipkart Product Recommendation System

Aug, 2024 - Sep, 2024

- Processed over 7.5M+ user-product interactions and applied SVD on a CSR matrix to tackle data sparsity..
- Built user-based, model-based collaborative filtering, and rank-based algorithms to tackle cold-start issue.
- Employed preprocessing and the cosine similarity to achieve RMSE of 0.136 for accurate recommendations.

SKILLS AND CERTIFICATIONS

Languages, Frameworks Tools: JAVA, C++, HTML5, React JS, CSS, Version Control, GitHub , Kali Linux , John the Ripper , Metasploit , Autopsy , Maltego , Wireshark

Certifications: Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate

issued by **ORACLE** ,2025

ACHIEVEMENT

- Top-5 Finalist in **Anti-Piracy Hackathon** Initiated by World Audio Visual Entertainment Summit for MSME Industry and Conducted by Ministry of Maharashtra.
- Top-3 Finalist in **SOLVIT Hackathon** held in VIT-BHOPAL,
- 200+ day learning streak on Duolingo for **German & Japanese**.

CO-CURRICULAR ACTIVITY

Joint Secretary - BitsbyBits Club VIT Bhopal

- Conducted technical workshops, coding bootcamps enhancing programming skills and community engagement.

Team Lead at Mozilla Firefox Club, VIT Bhopal

- Organized 5+ hackathons and coding events, increasing participation from 100 to 300+ students.

Student Council - Discipline Committee at VIT Bhopal

- Ensured smooth conduct of campus activities by maintaining order during events and enforcing institutional code of conduct.
- played Basketball , athletics and football at **National-Level** .