

# HARSH DUBEY

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## Education

**Vellore Institution of Technology, Bhopal**

*B.Tech in Computer Science and Engineering*

[Specialization in Cybersecurity and Digital Forensics]

**June 2021 – June 2025**

*8.53/10 CGPA (Current)*

## Technical Skills

**Cybersecurity:** Network Security, GRC Analyst, Threat Intelligence, Incident Response

**Programming:** Python, Core Java, SQL

**Cybersecurity Tools:** Nmap, Wireshark, Metasploit, Burp Suite, Nessus, OSINT Framework

**Technologies:** HTML, CSS, Javascript, React.js, Networking, Operating Systems, SDLC Model

**Libraries/Frameworks:** Numpy, Pandas, Matplotlib, Seaborn, SkLearn, Keras, OpenCV, Tensorflow, OpenCV

**Languages:** Hindi (native), English (fluent)

## Experience

**CodeCraft Technologies Pvt Limited, Virtual**

**December 2024 - January 2025**

*Intern — Cybersecurity Tools and Web*

*Cyber Domain*

- Executed network security tasks to strengthen internal system protection and secure communication channels
- Implemented cybersecurity tools for system monitoring, threat detection, and ensuring data integrity and confidentiality
- Worked with the cybersecurity team to improve security protocols and effectively mitigate cyber threats.

**Codemitra, Ethnus**

**August 2023 - November 2023**

*Training Intern — Blogging Platform*

*MERN Full Stack Developer*

- Developed a MERN stack blogging platform, improving data efficiency by 50% with RESTful APIs for 1,000+ users
- Enhanced app performance by 25% and maintainability by 40% using Redux for state management
- Optimized data management efficiency by implementing RESTful APIs using Node.js and Express.js for improved performance
- Spearheaded architecture design and integration, ensuring scalability and robustness to support user growth and future feature expansions

## Projects

**CLI-network-pentest** | *Python, Networking, Security Analysis*

**February 2025**

- Designed CLI-based network penetration testing tool in Python for automated vulnerability scanning and exploitation
- Organised and implemented port scanning, service enumeration, and brute-force attack modules to identify security gaps
- Leveraged Git for version control and collaborated to enhance security automation and ethical hacking methodologies

**AI-based HR assistant chatbot** | *Python, MLOps*

**December 2024 – January 2025**

- Created an HR chatbot with Streamlit, handling 1,000+ inquiries and reducing response time to under two minutes
- Integrated OpenAI's LLM API with a customized knowledge base to generate accurate and context-aware responses.
- Led end-to-end project development, from setup to deployment, including AI training and HR document curation.

**SP500 Time Series Analysis** | *Python, MLOps*

**January 2025**

- Processed SP500 time series (Dec 2012–Dec 2022) using forecasting techniques like exponential smoothing and ARIMA
- Constructed machine learning models with scikit-learn, scrutinizing performance using residual diagnostics and improving model fit by 20% based on AIC scores for enhanced HR document analysis.
- Used ARIMA for six-period forecasts, communicating results with 80% and 95% confidence intervals

**Phishing Detection AI** | *Python, NLP*

**January 2025**

- Built an NLP model to classify emails, saving 25 hours of manual review each month
- Implemented Naive Bayes and SVM algorithms, cutting processing time by 30% and enabling focus on strategic insights
- Analyzed email content patterns to improve automated response accuracy, reducing follow-up by 50% inquiries

## Certifications

- AWS Certified Cloud Practitioner (AWS CLF-C02), January 2024.
- Cyber Thread Management, Cisco, March 2024.
- Certified Ethical Hacker, CEH, November 2024.

## Extra-curricular and Achievements

- The CyberDelta - Know The Click(Active participation in cybersecurity awareness campaigns.)
- Innovated a high-precision face and tampering detection system during BOB Hackathon, attaining 95% accuracy and improving detection reliability.