Harsh Dubey

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Education

Vellore Institute of Technology, Bhopal   **June 2021 – June 2025**
B.Tech in Computer Science and Engineering   *8.53/10 CGPA (Current)*
[Specialization in Cybersecurity and Digital Forensics]

Technical Skills

Programming: Python, Core Java , SQL
Developer Tools: Prompt Engineer, Github, VS Code, Google Colab, Jupyter Notebook
Technologies: HTML, CSS, Javascript, React.js
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*

- Completed tasks related to network security, enhancing the protection of internal systems and ensuring secure communication channels
- Applied cybersecurity tools to monitor and protect the organization's systems, ensuring the integrity and confidentiality of sensitive data
- Collaborated with the cybersecurity team to enhance security protocols and proactively mitigate risks associated with 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 with RESTful APIs in Node.js and Express.js, boosting performance
- Led the architecture design and integration, ensuring scalability and robustness to support growing user base and future feature expansions

Projects

CLI-network-pentest | *Python, Networking, Scanning, MLOps*   **February 2025**

- Developed a CLI-based network penetration testing tool using Python for automated vulnerability scanning and exploitation.
- Implemented port scanning, service enumeration, and brute force attacks to identify network weaknesses and security gaps.
- Utilized Git for version control and collaborated on enhancing security automation and ethical hacking practices.

AI-based HR assistant chatbot | *Python, MLOps*   **December 2024 – January 2025**

- Developed an HR chatbot with Streamlit, handling 1,000+ inquiries and reducing response time to under two minutes
- Integrated OpenAI's LLM API for precise responses using a customized knowledge base
- Led the project from setup to deployment, training the AI and curating HR documents

SP500 Time Series Analysis | *Python, MLOps*   **January 2025**

- Analyzed SP500 time series (Dec 2012–Dec 2022) using forecasting techniques like exponential smoothing and ARIMA
- Built models using scikit-learn, evaluating performance with RMSE, AIC, and Residual Diagnostics
- Used ARIMA for six-period forecasts, communicating results with 80% and 95% confidence intervals

SpamFilter AI | *Python, MLOps*   **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.

Extra-curricular and Achievements

- The CyberDelta - Know The Click(Cyber Security Awareness).
- Innovated a high-precision face and tampering detection system during BOB Hackathon, attaining 95% accuracy and improving detection reliability.