Himani Zambare

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Education

VIT Bhopal University, Bhopal **2022 - 2026**
B.Tech in CSE(Specialization in Cyber Security and Digital Forensics) *8.95/10 CGPA*

Technical Skills

Languages & Frameworks: Java (DSA), Python, HTML, CSS, JavaScript, Tailwind CSS, React.js, Next.js, Node.js
Databases & Tools: MySQL, MongoDB, Git, Docker, Kubernetes
ML & Libraries: Scikit-learn, TensorFlow, Keras, Streamlit, OpenCV, Tesseract OCR, NumPy, Pandas

Projects

Number Plate Recognition System **Link**
- Developed a desktop-based Number Plate Recognition system using Python, OpenCV, and Tesseract OCR to detect and extract text from vehicle plates.
- Applied image preprocessing techniques such as grayscale conversion, noise removal, and adaptive thresholding to improve OCR accuracy.
- Designed an interactive GUI using Tkinter for easy image upload, detection execution, and display of extracted plate numbers.
- Technologies: Python, OpenCV, Tesseract OCR, Tkinter

Virtual Stock Trading Platform **Link**
- Engineered a full-stack web platform to simulate stock trading with real-time pricing powered by Finnhub API.
- Implemented user registration/login with JWT authentication and leveraged MongoDB to store portfolios, trades, and balances dynamically.
- Built intuitive front-end dashboards using React.js and Tailwind CSS to facilitate buying, selling, and monitoring of virtual stocks.
- Developed RESTful APIs in Node.js/Express to manage transaction processing, balance updates, and trade history tracking.
- Technologies: React.js, Tailwind CSS, Node.js, Express.js, MongoDB, JSON Web Tokens, Finnhub API.

NoteForge.ai **Link**
- Developed a modern web application that allows users to upload PDF documents and ask context-aware questions.
- Integrated Google Generative AI API to extract relevant answers directly from uploaded PDFs, simulating an intelligent assistant.
- Enabled seamless login/signup using Clerk authentication and ensured real-time state synchronization through Convex backend.
- Technologies: Next.js, Tailwind CSS, Google Generative AI API, Clerk Auth, Convex, PDF.js

Experience

- **Ongoing Internship**: Student Internship Program (SIP) with MP Police.
- Engaged in visits to Dial 100 and various police stations to understand real-time operations.
- Collaborated with cross-functional teams during internships and club activities to analyze data, present findings, and propose actionable improvements.
- Conducting data analysis on survey data to aid in community-focused enhancements.

Certifications

IBM DevOps Fundamentals, **IBM Blockchain Developer**, **Machine Learning (Coursera)**

Achievements

- **Research Paper Presentation at ICET-24** – Presented a research paper titled "Designing A VPN Using Open Network Infrastructure With Enhanced Security And Performance" at the International Conference on Engineering and Technology, Chandigarh, India, on June 16, 2024.
- Completed multiple **Google Cloud Skill Badges** – Essentials, Kubernetes, IAM, Cloud Run, Cloud Functions.
- Self-driven interest in financial markets, investment research, and global economic trends. Developed a stock trading simulator using real-time APIs to better understand portfolio dynamics.
- Core member of the R & D Department of **Cyber Warriers Club** – Contribute to a team of researchers in exploring and developing innovative cybersecurity solutions.