Mandavi Tripathi

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EDUCATION

Vellore Institute of Technology   September 2021 – May 2025
Bachelor of Technology in Computer Science and Engineering   *CGPA: 7.00/10.0*

TECHNICAL SKILLS

Languages: Java, JavaScript,HTML, CSS,Python, SQL
Tools/Frameworks: React, Node.js, REST API, MS Office,Google Analytics
Relevant Coursework: Data Structures, Operating Systems, Computer Networks, Database Management Systems

EXPERIENCE

National Informatics Centre (NIC)   October 2023 – December 2023
Web Development Intern   *Lucknow, India*
- Spearheaded the Marriage Registration portal's public service desk, personally assisting citizens with grievances.
- Coordinated with 70+ citizens and government officials to gather requirements and provide technical support.
- Streamlined user authentication process while maintaining security protocols, reducing registration time by 25%
- Collaborated with cross-functional teams to resolve user-reported issues, achieving 90% resolution rate

PROJECTS

The Medilocker | *HTML, CSS, JavaScript, PHP, OAuth, API Integration, SQL*   February 2023
- Architected a secure medical record management platform, integrating appointment scheduling and online consultations, driving a 50% increase in user adoption and reducing administrative workload by 40%
- Refined front-end performance using lazy loading techniques, reducing load time by 30% and improving user retention by 25%, while simultaneously optimizing database queries for faster data retrieval
- Designed a RESTful API, boosting data retrieval efficiency by 40%, decreasing server load by 20%

BlockChainVoting | *Solidity, Web3.js, Next.js, Node.js, MongoDB, IPFS*   January 2023
- Engineered a blockchain-based E-voting system using Solidity smart contracts and Web3.js, achieving 100% vote integrity and reducing election fraud risks to zero through immutable transaction records
- Designed real-time vote tracking dashboard using Next.js and Semantic UI, improving election transparency
- Utilized MongoDB backend for voter/candidate management, handling 100+ user's response times

Face Detection System | *Python, OpenCV, Machine Learning, SQLite*   January 2024
- Implemented a real-time facial recognition system, achieving 95 percent accuracy in detecting and identifying faces from live video streams and digital images, processing up to 30 frames per second on standard hardware
- Engineered a face recognition algorithm for security-based authentication, reducing unauthorized access by 80Enhanced image processing algorithms, decreasing computational time by 40% without compromising accuracy
- Designed an intuitive user interface, increasing system adoption rate by 60% among non-technical users . Using a SQLite database to store and manage facial recognition data, improving query performance by 30% .

CERTIFICATIONS

The Bits and Bytes of Computer Networking, Coursera, 2024
MERN Full Stack Development, Ethnus, 2024
Cloud Computing, NPTEL, 2024
Introduction to SQL, Kaggle, 2023

EXTRACURRICULARS AND ACHIEVEMENTS

Coding Proficiency: Solved over 200 data structures and algorithms problems on Leetcode and GeeksforGeeks.
Marketing Head, College Fest: Led promotional campaigns and secured sponsorships from regional businesses
Project Management: Directed Technama'22, managing stakeholder relationships and event partnerships
Fundraising Coordinator: Organized donation drives, developing pitch strategies for corporate sponsorships