Jay Trivedi

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Professional Summary

Computer Science student with 3+ years of hands-on experience in full-stack development, AI/ML applications, and system design. Demonstrated expertise in building scalable web applications, healthcare management systems, and cross-platform tools. Strong foundation in modern technologies with proven ability to deliver end-to-end solutions from concept to deployment across diverse domains including healthcare, DevOps automation, and AI-powered applications.

Education

Bachelor of Technology in Computer Science, Symbiosis Institute of Technology, Pune   Aug 2022 – May 2026

- Current CGPA: 7.16/10.0 | Relevant Coursework: Database Management, Software Engineering, System Analysis & Design, Data Structures & Algorithms, Machine Learning

Higher Secondary Certificate (CBSE), Kendriya Vidyalaya ONGC, Mehsana   2022

- Score: 74% | Mathematics & Science Stream

Professional Experience

Business Systems & Cybersecurity Analyst Intern, Oil and Natural Gas Corporation (ONGC)   Jun 2024 – Aug 2024

- Analyzed and optimized business processes across 5 different units, resulting in improved operational efficiency
- Conducted comprehensive cybersecurity assessments and implemented risk mitigation strategies
- Collaborated with IT teams to troubleshoot system issues and develop sustainable solutions
- Created detailed reports and presentations for management on security frameworks and business process improvements

AI & Machine Learning Analyst Intern, Infosys Springboard (Virtual)   Mar 2023 – Aug 2023

- Developed and implemented machine learning models using Python, achieving significant accuracy improvements
- Performed data preprocessing, feature engineering, and model validation on large datasets
- Created data visualizations and analytical reports to communicate insights to stakeholders
- Participated in agile development processes and collaborated with remote teams across different time zones

Network Infrastructure Analyst Intern, Cisco Networking Academy (Virtual)   Jun 2022 – Dec 2022

- Designed and configured network architectures for various business scenarios
- Implemented network security protocols and troubleshooted connectivity issues
- Developed comprehensive network deployment strategies and maintenance procedures
- Gained expertise in routing, switching, and network optimization techniques

Technical Projects

MediSync - Healthcare Management Platform | React, Node.js, MongoDB, Gemini AI   Mar 2024 – Present

- Built comprehensive healthcare web application with real-time doctor appointment booking system
- Integrated Gemini AI 1.5 Flash for intelligent doctor recommendations based on patient symptoms
- Implemented Azure Vision OCR for prescription data extraction and automated diagnosis suggestions
- Developed admin panel with complete CRUD operations for managing doctors, patients, and appointments
- Deployed secure cloud-based solution using MongoDB Atlas with role-based access control

FixIt - Cross-platform Software Installer | Python, CLI, Package Management Jan 2024 – Apr 2024
- Developed universal software installation framework supporting Windows, Linux, and macOS platforms
- Created intelligent package manager with automatic OS detection and environment configuration
- Implemented support for 7+ major software packages including MongoDB, Node.js, Docker, and PostgreSQL
- Built comprehensive CLI tool with features like version management, silent installation, and progress tracking
- Achieved 95% installation success rate with automated PATH configuration and verification systems

AI Text Humanizer Pro | Python, Streamlit, NLP, NLTK Nov 2023 – Feb 2024
- Built advanced NLP application to transform AI-generated text into human-like content with <10% AI detection
- Implemented sophisticated text processing algorithms with 200+ word transformations and pattern recognition
- Designed modern web interface using Streamlit with glassmorphism effects and real-time processing
- Created comprehensive CLI tool with batch processing, verbose mode, and multiple output formats
- Achieved 95% bypass rate for AI detection systems while maintaining text readability and coherence

Shield LLM - AI Safety Framework | Python, Machine Learning, Security Sep 2023 – Dec 2023
- Developed comprehensive AI safety and content moderation system for large language models
- Implemented multi-layered security framework with real-time threat detection and response mechanisms
- Created automated content filtering system using advanced NLP techniques and machine learning models
- Built monitoring dashboard for tracking AI model behavior and potential security vulnerabilities
- Integrated compliance features ensuring adherence to AI ethics and safety guidelines

Navigation System with Monitoring Dashboard | Flask, MongoDB, Python Aug 2023 – Nov 2023
- Developed full-stack web application with real-time GPS tracking and route optimization algorithms
- Implemented RESTful APIs for seamless data exchange between frontend and backend systems
- Integrated MongoDB for efficient storage and retrieval of location and user data with optimized queries
- Created responsive user interface with interactive maps and real-time monitoring capabilities

HR Analytics Dashboard | Python, SQL, Tableau, Power BI Jan 2024 – Present
- Built end-to-end analytics platform processing 10,000+ employee records with real-time visualization
- Implemented automated data pipeline using Python and SQL for seamless data integration and processing
- Created interactive dashboards providing actionable insights for strategic HR decision-making
- Deployed scalable solution with role-based access control and comprehensive data security measures

Technical Skills

Programming Languages: Python, JavaScript, SQL, HTML, CSS, Java (Basic), C++ (Basic)

Frameworks & Libraries: React, Node.js, Express, Flask, Streamlit, Scikit-learn, Pandas, NumPy, Matplotlib, NLTK

Databases & Cloud: MongoDB Atlas, MySQL, PostgreSQL, Azure Vision API, Google Gemini AI

Tools & Technologies: Git, Docker, Tableau, Power BI, Postman, VS Code, CLI Development, Package Management

Specializations: Full-Stack Development, AI/ML Applications, Healthcare Systems, DevOps Automation, NLP, Cross-platform Development

Professional Certifications

- **Google Cybersecurity Professional Certificate** – Comprehensive security analysis and risk management
- **Cisco Networking Essentials** – Network infrastructure design and troubleshooting
- **OPSWAT Cybersecurity Associate** – Security frameworks and vulnerability assessment