Vivek Choudhary

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SUMMARY

Full-stack software engineer with 2+ years of experience. Fostered the development of scalable apps by quickly understanding and applying business requirements. Competent in Java, Python, ML, DL, and AI engineering. Seeking AI/ML engineering roles to gain experience in building, deploying, and scaling ML systems.

PROFESSIONAL EXPERIENCE

Full Stack Software Engineer — Aug 2022 – Nov 2024
VOLKSWAGEN — *Gurugram, India*
- Curtailed production runtime errors by **50%** for a Taiwan-based dealer management system serving **100+** dealers by redesigning **REST API** integrations in **Vue.js** and **React**, and implementing automated **CI/CD** pipelines.
- Resolved **100+** critical UI, backend, and database bugs through root cause analysis and end-to-end debugging, improving system stability by **40%**, and reducing client-reported issues.
- Architected automated multi-language support using **PostgreSQL**, **LINQ**, and **microservices** to localize **250+** text labels, enabling the system to serve international dealers across multiple regions.
- Coordinated production rollouts for **100+** dealers with a **3**-person team, reducing deployment downtime significantly by identifying and fixing performance bottlenecks using **Vue DevTools** and the **.NET ILogger** API.
- Improved billing report generation speed by **30%** using **DevExpress** and optimized database stored procedures, reducing customer wait time and increasing report usage.

Software Engineer Intern — Jan 2022 – Mar 2022
MYRIDIUS x AETHEREUS — *Pune, India*
- Minimized manual CRM work by **20%** and boosted system reliability by **30%** by building **10+** Salesforce triggers and workflows and debugging Apex code with senior engineers.

Graduate Teaching Assistant — Aug 2025 – Present
WORCESTER POLYTECHNIC INSTITUTE — *Worcester, Massachusetts, USA*
- Support **35** graduate students in **CS-548 Knowledge Discovery** and **Data Mining** coursework through weekly office hours covering **classification**, **clustering**, **regression**, and real-world **data mining** projects.

PROJECTS

Jerai (Github) | *Flask, Python, Docker, MCP, Cerebras, Llama (Meta), Railway, Vercel, Typescript* — Oct 2025
- Developed an automated bug-fixing system using **Cerebras**, **Llama 3.3**, and **Docker MCP** that analyzes code issues, generates patches, and runs tests in **10-15** seconds.
- Integrated **RAG** with **ChromaDB** vector database to retrieve relevant code context and similar bug patterns, improving patch generation accuracy.

CampusCashControl (Github) | *Django, Vue.js, Python, Tableau, JWT, PostgreSQL* — Feb 2025 – May 2025
- Built a **Django/Vue.js** application that automates spreadsheet uploads and generates **Tableau** dashboards, accelerating campus budget reconciliation by **25%** and data processing by **70%.**
- Implemented **role-based** access control using **Vue.js** and **JWT** authentication to secure sensitive financial data.

Textify (Github) | *Flask, HuggingFace, Javascript, Python, Machine Learning, NLP* — April 2021 – June 2021
- Developed an **NLP** application using **Flask**, **NLTK**, and **GPT-2** (**PyTorch**) that summarizes articles and generates text through a web interface in under 10 seconds.

TECHNICAL SKILLS

Languages: C#, Java, Python, JavaScript, Typescript, SQL

AI/ML: Pytorch, Scikit-learn, Pandas, NumPy, HuggingFace, LangChain, Prompt Engineering, Retrieval Augmented Generation (RAG), Model Context Protocol (MCP)

Databases: PostgreSQL, MySQL, MongoDB, pgvector, ChromaDB

Web Technologies, Tools, & Frameworks: HTML/DOM, CSS, ASP.NET Core, Spring Boot, Flask, Django, FastAPI, React.js, Vue.js, Git, AWS, Linux, Azure Devops, Docker, Vercel, Postman, Hibernate, LINQ

Fundamentals: Data Structures, Problem Solving, Object Oriented Programming

Development Environments (IDEs): Cursor IDE, Visual Studio Code, Visual Studio, Pycharm, IntelliJ IDE

EDUCATION

Worcester Polytechnic Institute — Jan 2025 – Dec 2026 (Expected)
Master of Science in Artificial Intelligence — *Worcester, Massachusetts, USA*
Relevant Coursework - Database Management System, Intro to AI, Generative AI, Natural Language Processing, Reinforcement Learning, Responsible AI

Indore Institute of Science and Technology — Aug 2018 – Jun 2022
Bachelor of Science in Computer Science — *Indore, India*