Vaishnavi Kamdi

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EDUCATION

The George Washington University	Washington, DC
M.S. Computer Science	*Aug. 2024 – Present*
Ramdeobaba College of Engineering and Management	Nagpur, IN
B.E. Computer Science	*Aug. 2019 – May 2023*

EXPERIENCE

Schnell AI Inc. — June 2025 – Present
AI Engineer Intern — *Remote, Washington DC*
- Pioneering a traceability solution for regulatory documents by leveraging similarity search on vector embeddings; actively researching & developing a domain-specific embedding model to overcome the limitations of generic models and accurately capture nuanced regulatory language.
- Designed & implemented key software solutions, including a full-stack web application to manage traceability between Jira, GitHub, & compliance documents, & an automated technical report generator from Jupyter notebooks with Ollama.

Accenture Solutions Pvt. Ltd. — July 2023 – July 2024
Packaged App Development Associate — *Pune, IN*
- Engineered a scalable, high-throughput data backend using AWS and SQL, designing the distributed system to process high-volume workflows and improve job throughput by 40%.
- Performed comprehensive security audits to identify and mitigate over 15 critical OWASP Top 10 vulnerabilities, ensuring successful passage of internal and external compliance reviews.

AppsOShip — Jan. 2023 – June 2023
Machine Learning Engineer Intern — *Nagpur, IN*
- Built and deployed a Dockerized computer vision pipeline with 93% accuracy and integrated a CI/CD workflow using PyTest and GitHub Actions, reducing post-deployment bugs by 25%.
- Collaborated with designers and QA teams in a Jira-based sprint process, contributing to a 20% improvement in the speed of feature delivery.

PROJECTS

EchoChamber-MLOps | *Kafka, PySpark, Kubernetes, CI/CD* — Aug 2025 - Sep 2025
- Designed an end-to-end MLOps system featuring a real-time Kafka data pipeline and deployed a containerized LLM service to Kubernetes with a full CI/CD workflow for automation.

"TikTok vs Truth"– Product Reality Checker | *Node.js, Puppeteer, Ollama, Python* — Mar 2025 – July 2025
- Developed a full-stack tool that scrapes social media content, uses an LLM for review summarization, and generates reports, reducing user regret purchases by 50%.

Sports Analytics Platform | *Python, scikit-learn, Streamlit* — Jan 2025 – May 2025
- Built and deployed a predictive analytics platform (R^2 0.82) that provides insights on player market value to 50+ stakeholders via an interactive Streamlit dashboard.

Lost and Found App | *iOS, Swift, Node.js, Firebase, AWS S3* — Aug 2024 – Oct 2024
- Architected a scalable iOS app with a Node.js and Firebase backend, integrating Google Maps and real-time chat to decrease lost item recovery time by 60%.

AquaDeTeQ – Real-Time Species Detection | *Python, YOLOv5, Raspberry Pi* — Jul 2022 – Nov 2022
- Trained a YOLOv5 object detector to 93% precision and optimized the model for high-performance, real-time inference on resource-constrained hardware (Raspberry Pi).

Smart India Hackathon – ML Deployment Challenge | *TensorFlow, Vue.js, Python* — Jul 2022 – Nov 2022
- Led a team of four to design and build a deep learning inference engine and backend pipeline that improved detection throughput by 50% over the baseline.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, Go, JavaScript, SQL, Bash, JSON
Frameworks: FastAPI, Flask, Node.js, React Native, Vue.js
Machine Learning & NLP: PyTorch, TensorFlow, scikit-learn, OpenCV, NLP, Sentiment Analysis
Web & Data: Puppeteer, Web Scraping, REST APIs, GPT/Ollama, LLMs, Streamlit
Cloud & DevOps: AWS (EC2, S3, RDS, Glue), GCP, Docker, Git, Linux, CI/CD
Databases: PostgreSQL, MongoDB, Firebase, Redis
Developer Tools: GitHub, Jupyter, Figma, Jira, Postman, Tableau

PUBLICATIONS

A Novel Approach to Automatic Identification and Detection of Aquatic Animal Species | Published: 2022 | International Conference on Intelligent Systems, Data Science and Cyber Security [ICIDC-2022]