Vikas Pandey

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EDUCATION

- **Vellore Institute of Technology (VIT), Bhopal** — Madhya Pradesh, India
  Integrated Master of Technology in Artificial Intelligence; CGPA: 8.37 — *Oct 2022 - Nov 2027 (Expected)*
  - **Relevant Courses:** Data Structures, Analysis Of Algorithms, AI, Machine Learning, Deep Learning, NLP, DBMS.

SKILLS SUMMARY

- **Languages & Tools**: Java, Python, JavaScript, SQL, C++, HTML/CSS, Git, Docker, MongoDB, Redis.

- **Frameworks & AI**: FastAPI, Flask, React.js, Scikit-learn, Pandas, TensorFlow, CrewAI, FAISS, RAG Systems.

- **Platforms & Interests**: GCP (Compute Engine), Linux, Web, LLM Orchestration, Full-Stack Development.

EXPERIENCE

- **Sahib AI** — Remote
  AI Engineer Backend & RAG Systems (Project) — *Dec 2025 - Jan 2026*
  - Designed and implemented a curriculum-aware Retrieval-Augmented Generation (RAG) system to generate exam-specific questions for AP, SAT, IGCSE, and US K12 curricula.
  - Implemented semantic document chunking, FAISS-based vector retrieval, and prompt-grounded answer generation to ensure outputs are strictly derived from academic sources.
  - Deployed and managed the RAG service on Google Cloud Platform (GCP VM) with systemd, enabling persistent uptime, public API access, and automated restarts.

- **Lending Hands Foundation** — Remote
  Technical Intern — *Nov 2025 - Present*
  - Website Optimization: Collaborating with a 5-member technical team to execute essential front-end modifications, ensuring 99.9% visual consistency across the organization's web presence.
  - UI/UX Enhancements: Diagnosing and resolving layout inconsistencies across 4 major browsers, improving mobile responsiveness and reducing reported bugs by 15%.

PROJECTS

- **Nyay Sathi - Legal RAG System** — Python, FastAPI, FAISS, Groq, LLM
  Jan 2026
  - Architected a RAG assistant for Indian laws (BNS, etc.), enabling semantic query-based retrieval and context-driven legal explanations.
  - Developed a robust data pipeline to extract, clean, and chunk legal documents from PDF/HTML into a FAISS vector index for efficient retrieval.
  - Engineered a FastAPI backend integrated with Llama-3 (via Groq) for low-latency processing and legal citation generation.

- **Indian Auto Price Predictor** — Python, Flask, Pandas, Scikit-learn, Tailwind CSS
  Nov 2024
  - Developed a full-stack ML application to predict the resale value of used cars, achieving a 96.8% R-squared score.
  - Engineered a data processing pipeline using Pandas to clean and transform raw vehicle data, featuring custom engineering like Car Age Calculation.
  - Implemented a responsive web interface using Flask and Tailwind CSS to deploy the trained Random Forest model for real-time predictions.

- **Bahi Khaata - Finance Dashboard** — Python, Flask, SQLite, Chart.js, Pico.css
  Aug 2024
  - Architected a full-stack Flask application for personal expense tracking, budget management, and financial visualization.
  - Engineered a dynamic dashboard with full CRUD functionality for transactions, utilizing Flask-SQLAlchemy for robust database operations.
  - Implemented an interactive visualization module using Chart.js to generate real-time breakdowns of monthly expenses.

HONORS AND AWARDS

- **NASSCOM Hackathon**: Secured 2nd Rank among 500+ participants in "Automation Using Agentic AI" (Prize: Rs. 2,00,000).

CERTIFICATIONS

- **Oracle Cloud**: Infrastructure 2022 Certified Generative AI Professional & Data Science Associate (Aug 2025)

- **NPTEL**: Cloud Computing Certification (Apr 2025) | **UMich**: Applied Machine Learning in Python (Dec 2023)