SIDDHARTHA KUSHWAHA

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Education

Vishwakarma Institute of Technology, Pune (Expected 2028)
B.Tech in Artificial Intelligence & Data Science CGPA: 8.6
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating System, Computer Networks, Probability & Statistics

Projects

Shiksha AI—Offline-First AI Personal Tutor **GitHub**
- Built a privacy-focused AI tutor running entirely on-device using Gemma 3/Qwen 3 via Ollama without requiring internet access.
- Implemented OCR-powered multimodal learning using Tesseract.js and Socratic-style tutoring aligned with the CBSE curriculum.
- Added support for 9 languages with quizzes, flashcards, text-to-speech, and student progress tracking.

IntelligentQuery Retrieval System – AI-Powered PDF Q&A **GitHub**
- Developed a PDF question-answering platform using Llama 3.1, FAISS, and SentenceTransformers for context-aware retrieval.
- Enabled semantic search on PDFs up to 200 MB through vector embeddings, chunking, and retrieval pipelines.
- Built Flask and FastAPI interfaces with authentication, rate limiting, and Docker deployment.

Real-Time Transaction Reconciliation Engine **GitHub**
- Engineered a Kafka-based reconciliation platform processing transactions from multiple banking systems in real time.
- Reduced response latency by 92% (2172 ms to 165 ms) through Redis caching and optimized event processing.
- Implemented real-time mismatch detection across transaction amount, status, and timestamp fields, enabling instant reconciliation alerts.

Leadership & Experience

Web Developer Intern — FunSmartism — [Website] May 2026 – Jun 2026
- Developed and deployed the official FunSmartism website using **Next.js** and **Vercel** for a RoboSTEM education platform.
- Managed end-to-end deployment, including custom domain integration, **DNS configuration**, **CDN setup**, **SEO optimization**, and **Lighthouse-based performance tuning**, ensuring a fast, reliable, and discoverable web experience.
- Collaborated directly with stakeholders to gather requirements, iterate on feedback, and deliver responsive, production-ready features across desktop and mobile devices.

Cloud Coordinator, Microsoft Learn Student Community (MLSC), VIT Pune Aug 2025 - Present
- Conducted technical sessions on cloud computing and AI technologies.
- Organized workshops and technical events attended by 100+ students.

Achievements

- **Winner, Techathon 3.0**, for building *Shiksha AI*, an offline AI-powered personal tutor.
- Solved **400+ DSA problems** across LeetCode, CodeChef, and other coding platforms.
- **6× Finalist** at state and national-level hackathons in AI, fintech, and web development.
- **6+ open-source pull requests merged** across various GitHub repositories.

Skills

Languages: Python, C, C++, JavaScript, SQL
AI/ML: NLP, RAG, LLMs, Hugging Face, Ollama
Frameworks: FastAPI, Flask, React, Node.js, Express
Databases: MySQL, MongoDB, Redis
Tools: Docker, Postman, Apache Kafka, AWS, Git, GitHub, Linux

Certifications

- GitHub Foundations **Link**
- 5-Day AI Agents Intensive Course with Google **Link**
- SQL Fundamentals, DataCamp **Link**
- AWS Cloud Practitioner (CLF-C02) **Link**