

VIVEK RANALKAR

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SUMMARY

Final-year B.Tech (AI & Data Science) student with hands-on experience in ML/DL, LLMs, RAG pipelines, and low-level compiler engineering. Proven through 3 internships in industry AI roles; adept at turning research concepts into production-ready systems.

EDUCATION

Vishwakarma Institute of Information Technology, Pune *Aug 2022 – May 2026*

B.Tech — Artificial Intelligence & Data Science | **CGPA: 8.78**

EXPERIENCE

SAP AI Intern + WalkMe Developer — DXC Technologies *Nov 2025 – Present*

Hinjewadi, Pune

- ▶ Built a time-series forecasting pipeline deployed on SAP AI Core, correlating predicted sales with exogenous variables to improve future prediction accuracy.
- ▶ Developed WalkMe digital adoption workflows to streamline onboarding and in-app guidance across enterprise SAP applications.

Data Science Intern — AlgoAnalytics *Jun 2025 – Oct 2025*

Baner, Pune

- ▶ Replaced LLM-based data retrieval with an MCP-integrated pipeline, improving database query accuracy and visualization performance.
- ▶ Engineered a JSON processing pipeline to parse, transform, and reformat complex nested data structures.

Generative AI Intern — Ingenero *Jul 2025 – Sep 2025*

Thane, Mumbai

- ▶ Automated unstructured PDF ingestion using OpenAI LLMs, converting raw documents into structured, displayable formats via an OpenRouter (Meta LLaMA / OpenAI) pipeline.

PROJECTS

Chimera-Lang — Custom Compiler [\[GitHub\]](#) *C++ | LLVM | CMake*

- ▶ Built a full compiler (lexer, parser, code-gen) targeting x86 architecture using the LLVM toolchain; integrated cross-platform CMake builds for Windows & Linux.
- ▶ Implemented Rust-inspired memory safety (borrow checking, scoped lifetimes) and compiler optimizations; project received a government-issued copyright (Amayori-Lang) and was presented to the UMA Peru Authority.

Automated KYC System [\[Backend\]](#) [\[Frontend\]](#) *TypeScript | Python | Docker | React*

- ▶ Designed a microservices architecture with a Node.js/Express (TypeScript) API gateway and a Python FastAPI ML service for document verification; orchestrated via Docker Compose with Postgres and Redis, enabling selective service spins and live hot-reloading for rapid development iteration.
- ▶ Built a React + Bun + Tailwind + shadcn UI frontend with admin review screens and real-time status tracking, integrating directly with the KYC backend APIs for end-to-end document analysis and verification workflows.

TECHNICAL SKILLS

Languages: Python, C, C++, C#, TypeScript, JavaScript, SQL

AI / ML: PyTorch, TensorFlow, HuggingFace Transformers, LangChain, Ollama, OpenRouter, FAISS

Backend & APIs: Node.js, Express.js, FastAPI, REST APIs, Redis, PostgreSQL, MySQL, MongoDB

Frontend: React, Tailwind CSS, shadcn UI, Bun

DevOps & Infra: Docker, Docker Compose, Git, SAP AI Core, WalkMe, Google Colab, GroqAI

Technologies: LLMs, RAG Pipelines, Agentic AI, MCP, LLVM, Microservices, Vector Databases

CERTIFICATIONS & ACHIEVEMENTS

- ▶ SAP: Generative AI Developer (SAP AI Core) · WalkMe Developer (SAP) — enterprise digital adoption platform
- ▶ Coursera: Deep Learning Specialization, NLP & Vectorization, Google Data Analytics (8-course degree), Git & GitHub
- ▶ NVIDIA: Fundamentals of Deep Learning, Transformer-Based NLP Applications
- ▶ LeetCode: 68-day streak · SQL 50 badge · consistent DSA & system-design problem solving
- ▶ Hackathons: EY Techathon 2.0, Flipkart Grid, Google Solution Challenge, Technofea 2.0 (Unstoppable platform)
- ▶ Science & Tech Fest Runner-Up (VIIT, 2023–24) — laser Morse-code communication system using Arduino & C