

JALDEEP SATHVARA

GenAI Engineer | AI Product Engineer

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

SUMMARY

Full-stack developer turned GenAI Engineer with 2+ years of experience building production web applications. Transitioned into AI/LLM engineering through hands-on development of 4 end-to-end GenAI applications using RAG, LangChain, FastAPI, and Groq. Strong foundation in full-stack development (Angular + Python) combined with hands-on experience in LLM application architecture, semantic search, and structured AI pipelines.

TECHNICAL SKILLS

GenAI / LLM: LangChain, RAG, FAISS, Groq API, Vector Embeddings, Cosine Similarity, Prompt Engineering, Pydantic, sentence-transformers, Structured LLM Output

Backend: Python, FastAPI, PHP, Laravel, REST APIs, SQLAlchemy

Frontend: Angular, TypeScript, JavaScript, HTML, CSS

Database: PostgreSQL, MySQL, Supabase

Tools: Git, GitHub, Postman, Swagger, VS Code, Jupyter Notebook

GENAI PROJECTS

PDF Q&A RAG — [GitHub](#)

End-to-end RAG system for semantic PDF question answering using embeddings and vector retrieval.

- Built document ingestion pipeline using pdfplumber and sentence-transformers to chunk and embed PDF content
- Implemented FAISS vector store for semantic similarity search across document chunks
- Designed FastAPI backend with /ask endpoint integrating Groq LLM for context-aware answers
- Built Angular frontend with file upload, question input, and answer display

Stack: FastAPI | Angular | FAISS | sentence-transformers | Groq | Python

NotesTube - YouTube Notes Generator — [GitHub](#)

AI-powered tool that generates structured notes, keywords, and Q&A from YouTube video transcripts.

- Integrated YouTube Transcript API with LangChain summarization chains for multi-format note generation
- Built persistent notes storage using PostgreSQL via Supabase with full CRUD operations
- Implemented hybrid RAG for video Q&A combining FAISS retrieval with Groq LLM responses
- Designed Angular UI with video input, notes display, and interactive Q&A interface

Stack: FastAPI | Angular | LangChain | PostgreSQL | Supabase | FAISS | Groq

Resume Analyzer — [GitHub](#)

AI tool that compares resumes with job descriptions and returns match score, skill gaps, and improvement suggestions.

- Designed multi-stage LangChain pipeline for structured analysis across 4 dimensions: skills, experience, education, and summary
- Used sentence-transformers embeddings with cosine similarity for semantic resume-JD matching
- Implemented PDF text extraction and dynamic prompt construction for accurate LLM analysis
- Built Angular UI with file upload, JD input, and detailed results dashboard

Stack: FastAPI | Angular | LangChain | FAISS | Groq | Pydantic | Python

Code Error Explainer — [GitHub](#)

Full-stack AI tool that explains code errors, identifies root causes, and generates corrected code.

- Designed structured LangChain prompt chain using with_structured_output for reliable JSON responses
- Built FastAPI backend with Pydantic validation enforcing supported languages: Python, JS, TypeScript, SQL
- Implemented one-click copy for fixed code and clear 3-section result display in Angular UI

Stack: FastAPI | Angular | LangChain | Groq | Pydantic | Python

EXPERIENCE

Intelliworkz Business Solutions | PHP Laravel & Angular Developer May 2023 – June 2025

- Designed and developed 2 full-stack production applications (Task Management System and Real Estate Platform) using Laravel, Angular, REST APIs, and MySQL, improving internal workflow automation and client facing platform usability
- Built RESTful APIs for seamless data flow between backend and frontend across both products
- Implemented role-based authorization, real-time features, and third-party integrations including Google Reviews API
- Collaborated in an Agile team environment, delivering features across full sprint cycles

Iboon Technologies | PHP Laravel Intern Sept 2022 – April 2023

- Gained hands-on experience in PHP, Laravel, Ajax, and jQuery through real-world project contributions
- Developed backend modules and learned industry-standard coding practices in a professional team environment

EDUCATION

B.Tech in Computer Engineering — Silver Oak University 2024

CGPA: 8.54 / 10

Diploma in Computer Engineering — VPMP Polytechnic (GTU) 2021

CGPA: 6.72 / 10