

# SAMYOGH CHILIVERY

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## SUMMARY

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AI Engineer with an ML, GenAI, and Agentic AI background, currently building production AI features at GiFTEM, an AI-powered recruiting platform, including AI-assisted search, candidate evaluation, and recruiter automation, alongside full-stack product development. Through independent projects, I have built hands-on experience with LLM applications, RAG pipelines, vector search, LangChain/LangGraph workflows, and conversational AI. Comfortable owning features end-to-end, from AI workflow design to backend services, UI implementation, optimization, and production reliability.

## EDUCATION

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**Bachelor of AIML:** Geethanjali College of Engineering and Technology - Hyderabad 2022 - 2025

**Diploma in EEE:** Samskruti College of Engineering and Technology - Hyderabad 2019 - 2022

## SKILLS

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- **LANGUAGES :-** Python, JavaScript, TypeScript, SQL, Java.
- **AI / GENERATIVE AI :-** Generative AI, Large Language Models, OpenAI API, Prompt Engineering, LLM Applications, AI Agents, Human-in-the-Loop, Guardrails, Structured Outputs.
- **RAG / VECTOR SEARCH :-** RAG, Vectorless RAG, Data Ingestion, Chunking, Embeddings, Retrieval, Similarity Search, Vector Search, FAISS, ChromaDB, Pinecone.
- **LANGCHAIN / AGENTIC AI :-** LangChain, LangGraph, CrewAI, Tool Calling, MCP, Agent Workflows, Graph-Based Workflows, Nodes, Edges, State Management, Conditional Routing, Conversational Memory.
- **FULL STACK :-** React.js, Next.js, TypeScript, Material UI, Tailwind CSS, Node.js, Express.js, REST APIs, FastAPI, Streamlit, Sequelize ORM, Socket.IO.
- **DATABASES / INFRA :-** PostgreSQL, MySQL, MongoDB, SQLite, Redis, Bull Queues, AWS.
- **ML / DEEP LEARNING :-** Neural Networks, CNNs, RNNs, Deep Learning, NLP, Transfer Learning, Scikit-learn, TensorFlow, PyTorch.
- **TOOLS :-** Git, GitHub, Postman, VS Code, Jupyter Notebook, PyCharm, ChatGPT, Claude AI, GitHub Copilot, ChatGPT Codex.

## EXPERIENCE

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**AI Engineer / Full Stack AI Engineer (Full-Time)** February 2025 – Present  
Shuvel Digitech Private Limited

**Project: GiFTEM – AI-Powered Recruiting Platform**

Core contributor to GiFTEM, an AI-powered recruiting platform that helps recruiters source, analyze, shortlist, and engage candidates using semantic candidate discovery, job-to-candidate match analysis, skill-gap insights, Boolean/filter-based search, and AI voice outreach automation. ([View Project.](#))

**Technologies:**

Next.js, React, TypeScript, Node.js, Express.js, PostgreSQL, Sequelize, Redis, Bull Queues, AWS

**Key Responsibilities:**

- Built a JD-driven candidate sourcing workflow that analyzes role requirements and surfaces top-fit candidates, helping recruiters quickly move from job intake to shortlist-ready results.
- Implemented job-driven semantic candidate discovery with multiple modes including Strict, Explore, Boolean, and Filters to support both precise matching and broader candidate exploration.
- Developed AI-assisted candidate-job match insights and skill-gap analysis workflows that compare candidate profiles against job descriptions and surface evidence, fit signals, missing skills, and recruiter validation points.

- Built AI-powered voice outreach automation including call initiation, lifecycle/status syncing, transcript capture, outcome detection, and follow-up notifications.
  - Built structured AI analysis workflows that use job context and candidate profile data to generate consistent, recruiter-readable evaluation insights.
  - Developed an AI-powered Recruiter Sourcing Playbook that converts job descriptions, taxonomy, ontology, required and preferred skills, clearance requirements, and location data into recruiter-ready candidate profiles, Boolean search strategies, target-company recommendations, screening guidance, outreach templates, and end-to-end sourcing plans.
  - Optimized PostgreSQL queries, API response patterns, background processing, and per-job caching for long-running AI/search workflows, improving response times by 25–40% and reliability during heavy recruiter operations.
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## Full Stack Developer Intern

September 2024 – February 2025

Shuvel Digitech Private Limited

### Project: GiFTeM – AI-Powered Recruiting Platform

Contributed to early GiFTeM development by building recruiter-facing candidate search, filtering, job workflows, and backend APIs. Helped deliver AI-assisted sourcing experiences that combined recruiter queries, structured filters, and job-specific candidate discovery. ([View Project.](#))

#### Technologies:

React, TypeScript, Minimal UI, Node.js, Express.js, PostgreSQL, AWS, Git/GitHub

#### Key Responsibilities:

- Built responsive recruiter UI components using React and TypeScript, including candidate search views, filter drawers, profile views, and job workflows.
- Developed REST APIs in Node.js/Express for candidate search, candidate management, and job operations.
- Supported AI-assisted sourcing workflows by combining recruiter free-text queries with structured filters to improve candidate search precision.

## PROJECTS

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### Advanced RAG Pipeline for Multi-PDF Question Answering:

- Built an end-to-end Retrieval-Augmented Generation (RAG) pipeline to process multiple PDF documents and generate context-aware answers using semantic search.
- Implemented recursive text chunking, metadata-preserving document ingestion, SentenceTransformer embeddings, and persistent vector storage using ChromaDB.
- Developed semantic retrieval with top-k search, similarity thresholds, distance filtering, and source-document filtering.
- Integrated Groq Llama 3.1 with LangChain to generate grounded answers with source citations, page references, summaries, and conversational query history.

**Technologies:** Python, LangChain, ChromaDB, SentenceTransformers, Hugging Face, Groq, Llama 3.1, RAG, Vector Embeddings, Semantic Search, GitHub

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### Vectorless RAG Pipeline with PageIndex:

- Built a vectorless RAG pipeline for PDF question answering using hierarchical document trees instead of embeddings and vector databases.
- Implemented LLM-based tree search, recursive node retrieval, and structure-aware section selection with page-level context.
- Integrated Groq Llama 3.1 with LangChain to generate grounded answers with section titles and page references.

**Technologies:** Python, LangChain, PageIndex, Groq, Llama 3.1, Vectorless RAG, Hierarchical Retrieval, LLM Tree Search, GitHub