

Venkat Vatshal K

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CAREER OBJECTIVE

AI Engineer with hands-on experience building and deploying Generative AI applications, including RAG pipelines and agentic workflows. Enjoys working on production-grade systems, collaborating with cross-functional teams, and applying LLMs to solve real-world problems, particularly in the PropTech domain.

TECHNICAL SKILLS

Data Structures and Algorithms

Generative AI & LLM Applications

RAG Pipelines, Prompt Engineering, LLM Integration, Embedding Models, LangChain, Hugging Face, Chunking & Retrieval Tuning

Web Platforms & Tools

Wix Studio, Git, GitHub

Agentic Workflows & Automation

N8N, Make

Programming Languages

Core JAVA, Python, C, JavaScript, HTML, SQL, CSS

Frontend & Backend

React.js (Vite), FastAPI, REST APIs, Styled-Components, Framer Motion, CORS Configuration

Database Management & Vector Search

MySQL, Firebase, Vector Databases (FAISS)

Deployment & Cloud Hosting

Vercel, Render, Docker, Environment Configuration

PROFESSIONAL EXPERIENCE

AI Intern, Celerinn Technologies

10/2025 – Present

- Built and deployed **Altaric** , a production-grade AI-focused corporate website, delivering a complete full-stack solution.
- Worked on ECO supporting change management processes integrating system-level updates within enterprise PLM environments using AI.
- Assisted in integrating AI pipelines into production systems and improving internal model evaluation processes.

PROJECTS

TEASER – RAG-powered Chatbot

- Built an intelligent agentic RAG system for domain-specific question answering using LangChain, FAISS, and LLMs enhancing document searching.
- Developed adaptive document ingestion and query-processing pipelines to ensure precise, context-aware retrieval.
- Improved retrieval accuracy by 28% by optimizing FAISS indexing and chunking strategies.

Online Examination Portal

- Built a full-stack application in WixStudio with analytics, performance optimization, and real-time evaluation.
- Reduced system latency by 40% through query optimization and efficient data access.
- Designed scalable result analytics and leaderboard systems.

Agent V

- Developed a fully functional conversational AI agent leveraging n8n's workflow automation platform to automate interactions and streamline communication process.

Cross - Modal Similarity Evaluation System

- Built a multimodal similarity evaluation framework for text, image, audio, and video using deep learning embeddings.
- Designed evaluation metrics and visualization dashboards for similarity benchmarking.

CERTIFICATIONS

DSA with JAVA ☐

- Apna College - 11/2024

IBM Python ☐

- 05/2023

CISCO Networking Academy C language ☐

- 04/2023

PowerBI ☐

- 07/2023

EDUCATION

B-Tech, Artificial Intelligence, VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

2022 – present

Current CGPA - **9.00**

Intermediate, Sri Chaitanya Junior College

2020 – 2022

Percentage - **92.2%**

Class X, Sri Chaitanya Techno School

2020

GPA - **10.0**

ORGANISATIONS

TEDxVJIT, Core Team Member - Hospitality & Management.

HOBBIES

Dance, Content Writing, Poetry, Cricket, Badminton, Nature Photography