

Viswesh Kesarla

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SUMMARY

Computer Science undergraduate (GPA 8.61/10) building LLM-powered retrieval systems that turn unstructured documents into grounded, reliable answers, plus agentic workflows for real client processes. Hands-on with RAG pipelines end to end: chunking, embeddings, vector search, prompt design, and evaluation, through a Wipro internship and a research-paper-to-code project. Seeking AI/ML engineering internship opportunities.

EDUCATION

Woxsen University, Hyderabad

2024 – 2028 (Expected)

B.Tech in Computer Science and Engineering | GPA: 8.61/10

Coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Computer Networks, AI/ML Foundations

EXPERIENCE

Wipro, Hyderabad

May 2026 – July 2026

AI/ML Intern

- Built a Retrieval-Augmented Generation (RAG) pipeline in Python with LangChain, Hugging Face sentence embeddings, and ChromaDB over 25+ messy, real-world domain PDFs (1,000+ indexed chunks) for semantic question answering.
- Treated hallucinations as a core reliability problem: ran iterative validation tests across chunking strategies, Top-K settings, embeddings, and system prompts to diagnose retrieval and generation failures and improve answer accuracy.
- Developed an agentic workflow with Google ADK for a separate client engagement to optimize the client's business process.

PROJECTS

PaperForge AI

2026

Python, RAG, LLMs, FAISS

- Built an end-to-end RAG pipeline with semantic retrieval and FAISS vector search to extract methodologies from academic research papers.
- Applied semantic and recursive character splitting to preserve context boundaries, improving Recall@K on dense documents.
- Built an LLM-based research-to-code parser using strict system prompts and output schemas to turn unstructured formulas into compilable Python functions.

URL Shortener

2026

Python, Django, Docker, Bootstrap, GitHub Actions

- Built a full-stack Django app with a Bootstrap frontend to generate, store, and redirect custom URL hashes.
- Containerized with Docker Compose and set up GitHub Actions CI plus production deployment profiles.

TECHNICAL SKILLS

Languages: Python, SQL

LLM and GenAI: RAG, Agentic Workflows (Google ADK), LangChain, LangGraph, Hugging Face (Transformers, sentence embeddings), Prompt Engineering

Vector DBs and Backend: ChromaDB, FAISS, Django, FastAPI, MongoDB

ML Foundations: PyTorch, Scikit-learn

Tools: Git, GitHub Actions, Docker, Docker Compose, Jupyter Notebook, Google Colab

CERTIFICATIONS AND HACKATHONS

- **Anthropic** (2026): Generative AI & Agentic Developer Suite (Agent Skills, Model Context Protocol, Claude API/Code)
- **Udgham 24-Hour Hackathon**, Woxsen University (2024, 2025)
- Git Fundamentals, LearnkartS (2026) | Data Structures Using Python, Packt (2025) | Programming for Everybody (Python), University of Michigan (2024)