

HEMANTH KUMAR R

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PROFESSIONAL SUMMARY

Results-driven AI/ML Engineer with expertise in building NLP models, Retrieval-Augmented Generation (RAG) pipelines, and deep learning solutions using TensorFlow and Keras. Proficient in Python and SQL for developing scalable backend systems, automating enterprise workflows, and transforming complex datasets into actionable business insights. Passionate about Generative AI, intelligent automation, and data-driven decision-making.

EDUCATION

SIMATS	2025 – 2027
M.Tech in Artificial Intelligence and Data Science	CGPA: 7.5 / 10 No Standing Arrears
Vel Tech High Tech Engineering College	2021 – 2025
B.Tech in Artificial Intelligence and Data Science	CGPA: 7.38 / 10

TECHNICAL SKILLS

- Core Competencies:** Artificial Intelligence, Machine Learning, Data Science, NLP, Deep Learning, Generative AI (RAG, LLMs), Text Analytics
- Programming Languages:** Python, SQL, Deluge, JavaScript
- Libraries & Frameworks:** Scikit-learn, Pandas, NumPy
- Data & Visualization Tools:** Power BI, Matplotlib
- Enterprise & Cloud Platforms:** Zoho Creator, Zoho People, Zoho Payroll, Git, Application Deployment

PROFESSIONAL EXPERIENCE

ITK Education Services	Chennai, Tamil Nadu
Software Developer Intern	Feb 2026 – May 2026
- Develop custom enterprise applications and automate complex business workflows utilizing Deluge scripting across Zoho Creator, Zoho People, and Zoho Payroll platforms. - Engineered and deployed a centralized IT Asset Management System, improving inventory tracking, asset lifecycle monitoring, and resource allocation efficiency. - Collaborated with stakeholders to streamline operational processes through workflow automation and custom application development.	
Analytics Avenue for R&D	Chennai, Tamil Nadu
SQL & Data Analytics Intern	Apr 2023 – Sep 2023
- Developed and optimized complex SQL queries for extracting, transforming, and analyzing large datasets supporting business intelligence initiatives. - Designed data validation scenarios, identified anomalies, and resolved data quality issues to maintain high data integrity standards. - Collaborated with cross-functional teams to execute database optimization and reporting tasks within project deadlines.	

MACHINE LEARNING & AI PROJECTS

RAGDoc AI Python, LangChain, FAISS, Ollama, SQLite	2026
- Developed an AI-powered Retrieval-Augmented Generation (RAG) system to answer user queries from PDF documents using semantic search and Large Language Models. - Implemented PDF text extraction with PyMuPDF, document chunking using RecursiveCharacterTextSplitter, and embedding generation with Sentence Transformers. - Built a semantic retrieval pipeline using FAISS and integrated Ollama (Llama 3.2) to generate context-aware and accurate responses from retrieved document chunks. - Designed a local chat history management system using SQLite and implemented the complete end-to-end RAG workflow using LangChain.	
AI-Powered Resume & Job Description Matcher Python, NLP, Text Analytics	2024
- Engineered backend services to process and score resumes against job descriptions using advanced NLP techniques. - Implemented text parsing, summarization, keyword extraction, and semantic matching to automate candidate screening workflows. - Improved recruitment efficiency by providing data-driven candidate ranking and evaluation metrics.	

And More