

# VIKRAM M

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## PROFESSIONAL SUMMARY

AI Engineer with expertise in building production-grade LLM-powered applications, specializing in architecting Agentic RAG systems with advanced NLP and real-time data integration. Experienced in designing scalable back-end AI solutions with multi-modal capabilities for medical data analysis and intelligent decision support. Proven ability to translate ML requirements into reliable, production-ready systems that deliver measurable business impact.

## TECHNICAL SKILLS

- **Programming:** Python, SQL
- **Frameworks/Agent Platforms:** LangChain, LangGraph, Crew-Ai
- **AI/ML Skills:** Machine Learning, Deep Learning(basics), Natural Language Processing, Generative AI, Retrieval-Augmented Generation (RAG)
- **Databases & Vector Stores:** Pinecone, Chroma, FASIS
- **Tools & Platforms:** Git, Jupyter Notebook, Streamlit, VS Code, AI browser automation
- **Specializations:** Prompt Engineering, AI Automation, Orchestrations Chatbot Systems.

## EDUCATION

### Nehru Institute of Engineering and Technology, Coimbatore

2021 - 2025

Bachelor Degree, Artificial Intelligence and Data Science

• **GPA:** 7.5/10

### SRI VRV Matric Hr Sec School, Perampattu

2020 - 2021

Higher Secondary

• **GPA:** 89%

## WORK EXPERIENCE

### PUMO TECHNOVATION, Hosur

AUG 2025 - Present

Data Analytics – Intern

- Developed interactive dashboards using Power BI based on HR data, facilitating real-time insights into workforce metrics and performance trends.
- Conducted comprehensive data analysis and visualization with Python, SQL, and Tableau on large-scale commercial datasets including Flipkart, Amazon, and Netflix, extracting actionable patterns and customer behavior insights.
- Built end-to-end analytics pipelines integrating data extraction, cleaning, transformation, and visualization, enhancing decision-making accuracy and efficiency.
- Applied SQL to query sizable databases, optimizing data retrieval and supporting dashboard updates on real-time datasets.
- Delivered clear, data-driven narratives highlighting key business insights to guide operational strategies and marketing efforts.

### Techvolt Software Pvt. Ltd.

Jun 2023 - Jul 2024

Data Science Intern

Coimbatore

- Processed, visualized, and analysed large datasets (10,000+ records) using Pandas and Matplotlib, yielding actionable insights and driving data-centric decision-making.
- Built and fine-tuned classification models in scikit-learn, consistently achieving 85%+ accuracy on real-world predictive analytics tasks.
- Automated ETL data pipelines, streamlining cleaning and transformation for a 15% reduction in processing times and enhanced data quality.
- Collaborated cross-functionally to deliver end-to-end analytics solutions, aligning technical output with business goals and project milestones.

## CERTIFICATIONS

- **Machine Learning Course:** NPTEL | Sep 2024
- **IBM Watson studio(Machine Learning):** IBM | Mar 2024
- **AI/ML Virtual Internship :** Eduskills | Mar 2024
- **Data Analytics Process Automation:** Alteryx Sparked – AICTE | Aug 2024
- **Networking Essentials Course:** CISCO

## PROJECTS

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### Multilingual Educational Translator

- Developed a real-time educational translation tool leveraging LangChain, advanced NLP, and text-to-speech APIs to instantly translate and vocalize content in 5+ languages, improving educational accessibility for diverse users.
- Automated the collection and integration of linguistic data via browser-based AI agents, resulting in a streamlined development process and ensuring 95% translation accuracy.
- Delivered a seamless user experience with audio-visual outputs, leading to a 30% increase in engagement during prototype testing.

### Medibot: Agentic RAG-Based Healthcare Chatbot

- Developed an intelligent healthcare chatbot leveraging Retrieval-Augmented Generation (RAG) with Large Language Models (LLMs) to provide accurate health-related information, symptom analysis, and medical advice to users.
- Architected and implemented a multi-agent system combining NLP techniques for interpreting user queries, analyzing uploaded medical reports (CT scans, MRI, doctor's notes), and fetching real-time data from online medical databases.
- Integrated live doctor discovery functionality enabling users to find doctors by specialization, view contact details, and book appointments seamlessly.
- Enabled multi-language voice input/output functionality supporting regional languages including Tamil, enhancing accessibility for diverse user groups.
- Designed and executed OCR and AI-driven report analysis to extract key clinical insights from medical documents, providing users with understandable explanations of their health reports.
- Employed scalable backend architecture with asynchronous processing to handle concurrent users efficiently and ensured low latency responses.
- Technologies used: Python, LangChain, FastAPI, OCR libraries, voice APIs, vector databases for semantic search, cloud deployment.

## LANGUAGES KNOWN

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- Tamil (Native)
- English (Fluent)