

**Vignesh Prasath Ramamoorthy**  
+91 7338830358 | chotuviki@gmail.com

## Experience

- 
- Vizzhy/SML,** **May 2024 - Nov 2024**  
AI/ML Intern Bangalore, Karnataka
- Developed a retrieval system using few-shot learning that takes several medical reports and provides doctors with a summarised final report, using Phi-3 as the LLM and Deeplake for vector storage.
  - Extracted the metadata of over 10,000 legal documents, stored them in Weaviate and built a RAG framework to retrieve the judgments and verdicts of similar cases.
  - Constructed a model evaluation platform leveraging Python, GCP and streamlit, enabling head-to-head comparison of in-house AI model outputs against 5 leading LLMs across 20 diverse use case simulations.
- Augie,** **Sep 2022 - Nov 2022**  
Data Analyst Bangalore, Karnataka
- Provided EDA and visualised over 50,000 sales transactions alongside inventory data using, generated actionable insights that drove a 20% increase in inventory turnover rates and reduced stock shortages by 15%.
  - Conducted an analysis of customer purchasing behaviour, resulting in a targeted marketing campaign.
  - Provided real-time dashboards using GCP, Power BI and Google Looker to forecast sales trends over time.

## Core Skills

- 
- |                     |                               |                                |
|---------------------|-------------------------------|--------------------------------|
| • Generative AI/RAG | • Machine Learning            | • Statistics                   |
| • NLP and LLMs      | • Database & Data Engineering | • Applied AI & Business Impact |
| • EDA               | • System Design               | • Data Visualization           |

## Projects

- 
- Model Combat,** <https://github.com/wherearethegiggles/Model-Combat>
- The Model Combat AI Agent is a Proof of Concept designed to demonstrate a cost-effective approach for foundational model optimization, tailored to specific use cases. By utilizing Direct Preference Optimization (DPO), the system showcases a more efficient method of data collection for Reinforcement Learning, reducing costs by nearly 70%.
- Phi-3 RAG,** <https://github.com/wherearethegiggles/Phi-3-RAG->
- A RAG framework using LangChain for orchestration, Phi-3 as LLM from Hugging Face, and Deeplake as the vector store to process any format of documents and feeds the knowledge to the chatbot using few-shot learning. Chatbot built on Streamlit.

## Education

- 
- Christ University,** **June 2022 - May 2024**  
Masters of Science - Data Analytics GPA : 3.1 / 4.0
- SRM Arts and Science College,** **July 2019 - May 2022**  
Bachelor of Science - Computer Science GPA : 8.4/10

## Technical Proficiency

---

**Programming:** Python, R, SQL  
**Databases:** Deeplake, Weaviate, ChromaDB, PostgreSQL  
**Frameworks:** Pytorch, Langchain, Pandas, Numpy, Polars, Pyspark, Scikit-learn, XG Boost, Hf Transformers  
**MLOps & Deployment:** Streamlit, Gradio, GCP, FastAPI  
**Technologies & Tools:** Git, Apache Spark, Excel, Airflow, AWS, Docker, TensorFlow, C++, OpenCV