Abishai K C

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Executive Summary

I am a driven and resourceful technology professional with a strong foundation in machine learning, deep learning data analysis and LLMs. Skilled in navigating complex challenges, I bring practical solutions shaped by experience in hackathons, datathons, and internships. I thrive on collaborating with diverse professionals and have honed a talent for effective communication. With a passion for research, I combine analytical rigor with hands-on expertise to stay at the forefront of AI advancements, sharing insights to foster industry awareness. Known for my clear, original approach to communication and technical documentation, I'm dedicated to leveraging data and AI for meaningful impact.

Skills

Technical skills : Python programming, Applied Data Science, Machine Learning & Deep Learning, Data Analytics, Git & Git Hub,Fine-tuning & RAG

Education

Saveetha Engineering College, B.Tech AI & ML

MAY 2023 - MAY 2027

Completed IV semesters

Professional Experience

Research Intern, GNS-AI, LLC
Domains: FinTech and HealthTech

- Conducted research and development across FinTech and HealthTech projects, focusing on identifying pain points and proposing AI-driven solutions.

- Engaged in stakeholder communication, idea brainstorming, and market research to align technical outcomes with business needs.

AI Engineering Intern, Matrix Maven

Domain: Enterprise AI

- Architected end-to-end AI-driven solutions integrating **Large Language Models (LLMs)**, advanced **OCR** pipelines, and **autonomous agent-based systems** to automate complex workflows.

Hackathons

- **KU Hackathon** – Secured **Top 10** position for developing a *"What-If" flood simulation model* and a *public complaint portal* for real-time disaster resource allocation.

- **Gidy Techpreneur** – Achieved **1st Place** for building an *ensemble-based GDP prediction model* and a *budget allocation system* for the Indian government.

- **Fusion for Future** – Won **2nd Place** for creating a *blockchain-powered FIR filing portal* optimized for *low gas cost* with *anomaly detection logs* for enhanced transparency.

Conferences & Workshops

- **NASSCOM Conference**
  Presented a research thesis on enhancing *context awareness in small language models*, focusing on optimization techniques and lightweight fine-tuning strategies and a niche system architecture for domain adaptability.

- **Breaking the Brain – Workshop**
  Conducted a hands-on workshop on *fine-tuning large language models (LLMs),* guiding participants through the complete fine-tuning workflow and practical implementation.

Major Projects

- **FloodGuard** — [GitHub](#) : Built a dual-portal flood simulation and emergency-response system using an ensemble of attention - LSTM and Random Forest models to predict 5-day water level rise. Integrated a public complaint portal with geolocation and weather APIs for real-time distress reporting. *Tech Stack:* React, TypeScript, Flask, Supabase, Python.

- **Taxonomist-Gidy** — [GitHub](#) : Designed a tax-policy simulation and GDP prediction platform using agent-based modeling linked to economic indicators. Developed an interactive interface for scenario analysis and budget allocation. *Tech Stack:* Python, React, TypeScript.

- **TrueFIR** — [GitHub](#) : Created a blockchain-powered FIR filing system optimized for minimal gas costs, with integrated anomaly-detection logs to prevent misuse and ensure data integrity. *Tech Stack:* Solidity, Polygon testnet, Pinata(IPFS), Web3, React.

- **Causeway** — [Github (In Development)](#) : Architected an agentic decision-support system that constructs causal world models from unstructured data using RAG and structural document reasoning. Developed a dual-mode protocol for evidence-backed Directed Acyclic Graph (DAG) generation and decision synthesis with full audit provenance. Integrated optimization loops to refine agent retrieval strategies and causal reasoning accuracy through automated execution traces. *Tech Stack:* Python, FastAPI, Haystack-AI, PyWhyLLM, Qdrant, Agent Lightning, Google Gemini, SQLAlchemy.

Certifications & Achievements

TOEFL – Scored **91 / 120**

Google Data Analytics – [Coursera Certificate](#)

Multimodal Retrieval-Augmented Generation (RAG) using Vertex AI Gemini API – [CourseraCertificate](#)

Generative AI for Everyone – [Coursera Certificate](#)