Cyril Sabu George

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Education

Vellore Institute of Technology, Vellore 2023 – 2028 (Expected)
Integrated M.Tech in Computer Science and Engineering **CGPA: 9.39/10**
Green Hills Public School — Class XII; 94.8%; School Rank 1 2022 – 2023

Technical Skills

Languages: Python, JavaScript, C++, SQL
Backend & Web: FastAPI, Flask, Node.js, Express.js, React, REST APIs
Databases & Tools: PostgreSQL, Redis, Docker, Git, Apache Airflow, PySpark
ML & Data: Pandas, NumPy, scikit-learn, LightGBM, XGBoost, TensorFlow, PyTorch

Experience

Machine Learning Intern | FreshToHome, Bangalore May 2026 – Jun 2026

- Built automated data processing workflows for a demand forecasting platform, transforming **1M+ records** into model-ready datasets and forecasts to support inventory planning for perishable products.
- Implemented **3+ Apache Airflow pipelines** to orchestrate data ingestion, transformation, model training, and deployment workflows; managed model artifacts to make data processes reproducible.
- Built data quality checks for required columns, valid dates, and consistent feature schemas, detecting invalid inputs before downstream training and inference.
- Analyzed forecast performance across **5+ models**, including LightGBM, XGBoost, Random Forest, and Chronos-2; automated benchmarking to inform model selection for demand planning.

AI/ML Intern | GlobalLogic, Noida Mar 2026 – May 2026

- Implemented modular document processing and retrieval pipelines with configurable chunking, hybrid semantic and keyword search, reranking, and caching for a multimodal RAG application.
- Collaborated with a principal architect to translate application requirements and system designs into reusable backend components, integrating voice input, transcription, and text-to-speech workflows.

Projects

Time Agent — Construction Progress Platform | *Python, FastAPI, PostgreSQL, React, LangGraph* GitHub

- Built a full-stack application to import project schedules, process site reports, and map extracted observations to scheduled activities through evidence-linked proposals for human review.
- Implemented checkpointed background processing, approval-gated progress updates, audit history, and idempotent workflows; validated with **233 unit**, **124 database integration**, and **44 browser fixture** tests.

InvoChain — Blockchain Invoicing Platform | *React, Node.js, Express, Solidity, Ethers.js* GitHub

- Developed a full-stack invoicing platform with smart-contract-backed invoice creation, ETH/ERC-20 payment tracking, and dispute-resolution workflows.
- Integrated Firebase authentication, wallet signature verification, automated PDF generation, and IPFS storage; added API validation and rate limiting.

Fridge Vision — Image-to-Recipe Application | *Python, FastAPI, YOLO, React, Pandas* GitHub

- Built an image-to-recipe system using a **67-class** food detector, ingredient quantity estimation, optional OCR, and recipe matching through a FastAPI backend and React interface.
- Designed structured detection and recipe endpoints, linking preprocessing, ingredient normalization, and model outputs into consistent records for downstream recommendation.

Extracurriculars

External Affairs Head | Advanced Developers Group, VIT Jan 2025 – Present

- Collaborated with industry professionals and student organizers to deliver AI/ML workshops and hackathon tracks; led partnerships and outreach for iOS Fusion 8.0 and SharkTech, supporting **250+ participants**.

Awards and Certificates

Academic achievement: Branch Rank 6 as of Semester 6; Top 15 for three consecutive years, including Top 10 for two years.

Certifications: Oracle Cloud Infrastructure 2025 Generative AI Professional; Machine Learning Specialization — Stanford University & DeepLearning.AI.