DEVADHATTHAN L

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EDUCATION

Coimbatore Institute of Technology (CIT)   Coimbatore, India
Integrated M.Sc. in Artificial Intelligence and Machine Learning
All university coursework and academic communication are conducted in English.   *2023 – 2028 (Expected)*
- **Current CGPA:** 7.50(Till 5th Sem)

RESEARCH INTERESTS

Fields: Neuro-Symbolic AI, Agentic Reasoning, Trustworthy Machine Learning, Financial NLP, Formal Verification.

PROJECTS

EV*L Framework: Neuro-Symbolic Agentic RAG / *Python, LangChain, NetworkX, FAISS*   Jan. 2025
- Architected a multi-agent verification system designed to mitigate numerical hallucinations in financial auditing.
- Integrated **NetworkX Knowledge Graphs** as a symbolic world model to ground LLM reasoning against 12+ deterministic financial indicators.
- Implemented specialized **Earnings, Validity, and Longevity agents** to perform sentence-level entailment checks on NSE stock data, achieving 0.88 ROC-AUC.
- Developed a real-time Streamlit inference dashboard with explainable component scores and ¡150ms latency.

Privacy-Preserving Toxic Comment Detection / *TensorFlow.js, Bi-LSTM, Chrome API*   2024
- Trained a Bidirectional LSTM classifier on 160k comments, reaching 92% precision for multi-label toxicity detection.
- Engineered a client-side Chrome Extension for **on-device inference**, scanning 400-600 comments per page to ensure user privacy.
- Optimized model throughput by 40% via quantization, achieving sub-120ms latency on standard consumer hardware.

CiniMatch: Context-Aware Recommendation Engine / *Flask, Vector Embeddings, APIs*   2024
- Designed a hybrid engine utilizing 10k+ vector embeddings to deliver recommendations based on user mood and environmental weather data.
- Integrated TMDb/OMDb APIs for 600k+ entries, optimizing the backend to handle 150+ requests/sec.

TECHNICAL SKILLS

Languages: Python, SQL
Libraries/Frameworks: LangChain, NetworkX, FAISS, TensorFlow/Keras, scikit-learn, NumPy, Pandas
Developer Tools: Git, Streamlit, VS Code, Jupyter, Flask

ACHIEVEMENTS & CERTIFICATIONS

- **Winner - Tech Sculpt Project Expo (2025):** Awarded Best Innovation in Financial AI for the EV*L Framework.
- **Top 5 Finalist - GLYTCH National Hackathon (2025):** Built and shipped a functional MVP in 24 hours at VIT Chennai.
- **Finalist - Cippermatrics CTF Challenge (2025):** Competed in advanced cryptography and network security tasks.
- **Certifications:** TensorFlow Developer (GeeksforGeeks), Business Intelligence Data Analytics (NPTEL).

LEADERSHIP & ACTIVITIES

- **Organizer - Football Fest (2024):** Managed logistics and scheduling for a tournament with 150+ participants.
- **Forward - CIT Football Team (2023–Present):** Representing the college in inter-college competitive matches.