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🎯 Career Objective

Final-year M.Tech candidate in Translational Engineering with a strong foundation in AI, machine learning, and real-time financial automation. I've built and deployed modular ML trading systems using XGBoost and live APIs, and am now exploring large language model (LLM) applications in document Q&A and summarization. Currently seeking an applied AI/ML role where I can contribute to enterprise-grade solutions involving forecasting, document intelligence, and automation across finance and operations.
Actively exploring the intersection of LLMs and financial process automation, with interest in applying document summarization, Q&A, and AI copilots to FP&A workflows.

🎓 Education

M.Tech in Translational Engineering
Government Engineering College, Barton Hill (APJ Abdul Kalam Technological University)
2023 – 2025 (Expected)

B.Tech in Information Technology
Calicut University Institute of Engineering and Technology
2006 – 2010

🛠️ Technical Skills

- **Programming & Tools:** Python, NumPy, Pandas, SQL, Git, Matplotlib, Seaborn, Visual Studio Code
- **Machine Learning:** XGBoost, Scikit-learn, Feature Engineering, ROC-AUC, Grid Search
- **NLP/LLM Exposure:** Familiar with prompt engineering and LLM-based document Q&A using OpenAI API and HuggingFace; exploring use cases in summarization and retrieval
- **Quant & Automation:** Renko Charts, VWAP, Risk Management, Technical Indicators, SL/TP logic
- **APIs & Infra:** Binance API, ICICI Breeze API, TrueData API, AWS EC2, Telegram Bot, TradingView

- **Pipelines & Monitoring:** Modular pipeline design for live inference, confidence filtering, journaling
- **Soft Skills:** Research writing, process automation, real-time deployment, collaboration
- **Key Tools & Frameworks:** OpenAI API, Hugging Face Transformers, scikit-learn, XGBoost, LangChain (exploring), AWS EC2, SQL, Pandas, VS Code

📈 Key Projects

⚙️ AI-Powered Real-Time Trading System – BANKNIFTY (M.Tech Final Project | 2024–2025)

- Designed a full-stack ML trading bot using XGBoost, ICICI Breeze API, and TrueData data feeds
- Engineered 37+ features including VWAP distance, Renko trend, expiry week flags, OI delta
- Achieved ROC-AUC of 0.7285 and live win rate of 60.54%
- Integrated SL/TP logic, journaling, cooldown filters, and confidence gating (≥ 0.6)
- Modular architecture allows seamless extension into other instruments and data domains

⚡ BTCUSDT Futures Bot – Deployed on AWS (Independent Project | 2025)

- Built and deployed a real-time crypto bot using Binance API and Renko-based trend logic
- Deployed on AWS EC2 with 24×7 uptime, logging, auto-recovery, and modular signal expansion
- Added filters for volume validation and volatility control; supports trade journaling and alerts

🧠 LLM-Based Q&A and Summarization System (Prototype)

- Built a prototype Q&A system using OpenAI API for summarizing trading logs and extracting key insights
- Explored prompt engineering, few-shot examples, and confidence control in responses
- Future plans include integrating summaries into live journaling systems for trader feedback

📚 Research Internship

Indian Institute of Information Technology (IIIT), Kottayam
Research Intern – AI in Finance | June – July 2024

- Conducted a literature review of ML, NLP, and RL applications in financial modeling and decision support
- Identified gaps in model interpretability, sentiment signal integration, and cryptocurrency focus
- Proposed future enhancements including SHAP explainability, RL-based trade logic, and LLM use cases in document Q&A and macro signal summarization

📄 Publications

"AI-Powered Real-Time Trading System for Financial Markets Using Machine Learning"
📝 Submitted to IEEE ICACT 2025

- Described a deployable ML framework for index futures using Renko, VWAP, and OI signals
- Achieved 89.8% model accuracy with modular real-time execution
- Open-sourced core project on GitHub (available upon request)

💼 Professional Experience

Assistant Motor Vehicles Inspector
Government of Kerala – Transport Department | May 2013 – Aug 2023

- Enforced road safety, conducted compliance inspections, and led process automation
- Transitioned to full-time M.Tech and machine learning research in 2023

🌐 Languages

English | Malayalam | Hindi