Meher Venkat Raman

✉ venkatramanmeher@gmail.com   📞 +91 9059032160   in LinkedIn   ○ GitHub   ⌂ LeetCode

Education

Integrated MTech, Computer Science & Engineering, *University of Hyderabad*   2022 – 2027
GPA: 8.8

Senior Secondary, CBSE, *Sri Chaitanya*   2020 – 2022
Percentage: 93.8

Professional Experience

Summer Research Intern – Indian Statistical Institute (ISI),   05/2025 – 07/2025
Indian Statistical Institute (ISI)   Kolkata, India
• Modified the Kyber post-quantum cryptographic scheme to support multiple compression (du, dv) and noise (η_1, η_2) parameters.
• Implemented and optimized the core Kyber reference code in C for performance and efficiency evaluation.
• Built automated benchmarking tools to measure cycle counts and runtime across parameter variants.
• Conducted performance analysis and verified encryption/decryption correctness across all configurations.
• GitHub: github.com/meher4567/kyber-dilithium-tweaks ⎘

Skills

Programming
Python, Java, JavaScript, C, C++, SQL

Web & Frameworks
React, Django, Flask, Vite, SCSS,FastAPI,Streamlit

Tools & Technologies
Git, MySQL, REST APIs, WebSockets, Kubernetes, Docker, CI/CD,SQLite**,**SageMath

Concepts
Machine Learning, Deep Learning, NLP, Cloud Computing, Database Management, Microservices,Post-Quantum Cryptography,MLOps**,**Risk Analysis

Management
Project Management, Agile Methodologies, TeamCollaboration, StrategicPlanning

Projects

Algorithmic Trading System with Machine Learning, *Course Project – Algorithms & Game Theory* ⎘
• Developed a production-ready algorithmic trading platform integrating ensemble ML models (LSTM, Random Forest, XGBoost) for multi-stock signal generation.
• Implemented six trading strategies and a FastAPI + Streamlit interface for live signal visualization and management.
• Built a Monte Carlo risk analysis module (10,000+ simulations) with advanced metrics such as Sharpe, Sortino, and VaR.
• Designed backtesting and portfolio optimization frameworks achieving 210+ backtests across 10+ stocks with a 68% average win rate.

AI Resume Analyzer (ML & NLP) ⎘
• Built an AI-powered resume screening system using NLP and ML.
• Extracted skills, ranked resumes, and matched job descriptions.

- Used advanced NLP techniques for semantic job-resume matching.
- Technologies: Python, TensorFlow, Pandas, Django.

Airline Management System (React + Django + MySQL) ⎋
- Developed a full-stack airline management system with admin & user functionalities.
- Integrated CRUD APIs for managing bookings, flights, airports, and payments.
- Implemented a role-based authentication system.
- Technologies: React (Vite), Django, MySQL.

Achievements

Solved 450+ coding problems on GitHub, LeetCode & GFG.

Received fellowship from the University for topping the class three times.

Top 1 percentile in Both JEE-Advanced and JEE-Mains.

Certifications

- - Supervised Machine Learning: Regression and Classification - Coursera
- - Neural Networks and Deep Learning - Coursera