

Vijaya Krishna Mallekhedi

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Full-stack developer with hands-on experience in React, Spring Boot, and Firebase. Built and deployed scalable applications with real-time data processing and secure user authentication. Passionate about building performant products and solving real-world problems through technology.

Education

Indian Institute of Technology, Bombay, B.Tech in Civil Engineering

2021-2025

- GPA: 6.24/10

Internship Experience

BRAIN Research Consultant, WorldQuant

June 2022 - March 2025

- Developed 12+ market-tested quantitative strategies, achieving a mean Sharpe Ratio >1.69 in live simulations.
- Researched and analyzed 200+ finance papers, internet and other sources to build profitable trading strategies.
- Applied Equity Long-Short Market neutral strategies to generate +8.5% annualized returns for US equities.

Projects

Food-order Delivery Website

- Designed a responsive food-order website in React.js with user authentication, cart, address and contact features.
- Built a secure Firebase back-end with OAuth authentication, data protection, COD ordering, feedback support.

Real-Time Chat Application

- Built a full-stack chat app with authentication, friend requests, private messaging, and general chat in real time.
- Enhanced a real-time chat system with React, Spring Boot, MongoDB, secure login, smooth UI, scalability.

Stock Price Prediction Using LSTM and Flask

- Built a stock price predictor using LSTM, Flask, and React, allowing real-time predictions from historical data.
- Achieved 92% accuracy in 30-day price forecasts (tested on S&P 500 data), to serve 500+ daily predictions.
- Integrated a full-stack pipeline with PyTorch and Flask, ensuring accurate forecasting and seamless interaction.

Network Intrusion Detection System Using ML

- Developed an ML-based hybrid Network Intrusion Detection System using Keras, focusing on attack recognition.
- Trained a hybrid Keras model with 95% F1-score, reducing false positives by 15% in real-time CSV detection.
- Graph of model performance with Matplotlib for effective monitoring and evaluation of intrusion detection.

Technologies

Languages: C++, Java, JavaScript, TypeScript, Python, HTML, SQL

Technologies: TailwindCSS, React.js, Spring Boot, Firebase, Node.js, Express.js, REST APIs, Docker, PostgreSQL, MySQL, MongoDB

Positions of Responsibility

Operations Coordinator | AKAAR, IIT Bombay

Oct 2022 - Mar 2023

- Organized and executed an outreach initiative that aims to provide sponsorship opportunities for college events.
- Secured \$10,000+ in sponsorships through partnerships with 15 startups, increasing event funding by 40%.
- Established relationships with startups, resulting in successful sponsorship agreements & ongoing collaboration.

Extra-curricular Activities

- WorldQuant Challenge | Reached Gold Level by ranking in top 1800 (top 5%) among 38,000+ participants.
- Created 15+ academic videos in Telugu for high school students on the official Youtube channel "OLI", operated by NSS IIT Bombay, with over 30k+ views collectively.
- Certifications: Spring Boot 3 & Hibernate from Udemy | Advanced Learning Algorithms from Coursera.