

# MustafaYusuf

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## EDUCATION

CGC University | Major: Bachelor of Technology in AI & ML

2022 - 2026

## SKILLS

- **Programming Languages** - JavaScript, SQL, TypeScript, C++, Python, C
- **Frameworks/Libraries/Software** - React, Next.js, Django, Express.js, FastAPI, Pandas, NumPy, TensorFlow, PyTorch, BeautifulSoup, Material-UI, Redux, Recharts
- **Database/Cloud/DevOps/Tools** - Git, GitHub, GitHub Actions, Docker, Kubernetes, AWS (EC2, S3, Lambda), MySQL, MongoDB, Redis, Linux, REST APIs, WebSocket, Postman, Nginx, PM2, VS Code, Tableau

## EXPERIENCE

### Founder

Jan. 2024 - Present

StocML | Chandigarh, India

- Engineered and launched a full-stack copy trading platform MVP, enabling users to mirror trades in real-time via a responsive React/Next.js interface and live WebSocket streams powered by a Node.js/Express backend.
- Developed Ethereum smart contracts to ensure transparent and immutable trade verification, building trust through on-chain execution and auditability.
- Integrated broker APIs (e.g., Kite, Dhan) for seamless automated order routing, cutting manual trade lag and boosting execution precision.
- Deployed scalable backend services on AWS and GCP with Docker, NGINX, and GitHub Actions-based CI/CD, maintaining 99.9% uptime and enabling staged feature rollouts.
- Tuned MongoDB and PostgreSQL for high throughput and availability, optimizing query performance under real-world trading loads (50K+ requests/min).

### AI & Cloud Intern

Jun. 2024 - Jul. 2024

IBM | Remote

- Delivered a production-ready AI solution as part of a 4-week enterprise challenge, using IBM Watson services to analyze customer intent and automate support workflows.
- Built and deployed cloud-native applications using IBM Cloud Foundry, Object Storage, and Watson APIs, learning best practices in scalable system design.

## PROJECTS

### FluxTrade | Next.js, Python, MongoDB, AWS

- Built a high-frequency trading analytics platform that delivers real-time market intelligence by processing over 1 million price and order flow data points daily.
- Automated 10,000+ daily data ingestion tasks using scalable cloud pipelines, enabling low-latency analytics and eliminating the need for manual data wrangling.
- Integrated advanced visualizations and news aggregation features, cutting research time for traders by 40% and accelerating intra-day decision-making.

### Option Chain Viewer | Python, React, Machine Learning

- Developed and deployed ML models (Random Forest, LSTM) to predict option price movements, improving directional accuracy by 22% using historical chain data and volatility trends.
- Designed a live analytics engine that processes 100K+ option records per day and surfaces actionable “spike risk” alerts and confidence scores.
- Improved trader engagement by 35% by combining predictive insights with a real-time, user-friendly frontend.

## ACHIEVEMENTS

- Secured 2nd Rank in the Web Development Workshop, CGC University Mohali, out of 500+ students.
- Attained a top rating of 1812 on LeetCode contests.
- Finalist at Competitive Coding Event at D4-Hackathon by D4 Community.

## CERTIFICATES

Software Conceptual Design, Indian Institute of Technology Bombay  
Generative AI Intensive Course, Google x Kaggle

Oct. 2023  
Jan. 2025