

# MD MUSTAFA YUSUF

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## EDUCATION

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### Bachelor of Technology in AI & ML

2022-2026

CGC University, Mohali — CGPA: 8.54/10

## SKILLS

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- **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

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### Founding Engineer, StocML

Jan. 2025 -Present

- 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**).

### IBM SkillsBuild AI & Cloud Intern

Jun. 2024 - Jul. 2024

- 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

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### 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.

## CERTIFICATES

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Software Conceptual Design, Indian Institute of Technology Bombay — Oct. 2023

Generative AI Intensive Course, Google x Kaggle — Jan. 2025