

MUSTAK SK

Aspiring Machine Learning Engineer | Data Science, Quant & Algorithmic Trading

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PROFILE

Aspiring Machine Learning Engineer and Data Scientist building a strong foundation in the deep mathematics behind ML — linear algebra, calculus, probability, and statistics — with a specific interest in quantitative and algorithmic trading. Brings hands-on full-stack development experience (MERN) and a problem-driven, analytical mindset to translate mathematical models into working, data-driven systems. Currently deepening expertise in machine learning, statistical modeling, and trading strategy design through continuous, self-directed study.

CAREER FOCUS

- Seeking roles in Machine Learning, Data Science, or Quantitative/Algorithmic Trading where rigorous mathematics and modeling drive real decisions.
- Building deep understanding of the mathematics behind ML — linear algebra, calculus, probability theory, and statistics — as a long-term foundation for quant research.
- Combining software engineering experience with quantitative skills to design, backtest, and deploy trading algorithms and ML models.

SKILLS

- Machine Learning Fundamentals & Model Building
- Mathematics for ML: Linear Algebra, Calculus, Probability & Statistics
- Quantitative & Algorithmic Trading Concepts
- Data Analysis & Statistical Thinking
- Full-Stack Web Development (MERN)
- Backend API Development
- Database Design & Management
- Logical & Algorithmic Thinking
- Debugging & Optimization
- Problem Solving & Continuous Learning

WORK EXPERIENCE

Front-End / Full-Stack Developer (Part-Time) *March 2023 – Present*

Built responsive web interfaces while balancing academic studies, real-world development work, and self-directed ML/data science study.

- Designed and developed responsive, user-friendly web interfaces aligned with project requirements and business goals.
- Implemented modern frontend technologies to ensure performance, accessibility, and cross-browser compatibility.
- Collaborated with designers and backend developers to translate concepts into functional web experiences.
- Applied analytical and algorithmic problem-solving skills that now carry over into ML model development and trading-strategy logic.

PROJECTS & SELF-STUDY

Actively working on projects spanning web development, data science, and machine learning — including exploratory data analysis, model building, and early-stage exploration of algorithmic trading strategies — as part of an ongoing transition toward ML and quant-focused work. Code and project work available on GitHub (see above).

EDUCATION

Bachelor of Computer Applications (BCA) 2022 – 2025

Gitaram Institute of Management — Grade: 6.80

Built a solid foundation in programming, web development, and problem-solving through academic projects, sparking a strong interest in data science, mathematics, and analytics.

Higher Secondary & Secondary (Class 10 & 12) 2015 – 2022

Gorabazar Iswar Chandra Institution

Completed foundational schooling, where an early interest in coding, mathematics, and problem-solving took shape.

LANGUAGES

- English – Conversational
- Hindi – Fluent
- Bengali – Fluent