

Chintan N. Ruparel

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LinkedIn | GitHub | Blog | TWODS Capital | Medium | Portfolio

EDUCATION

New York University, Tandon School of Engineering

Masters of Science, Computer Engineering

Relevant coursework: Artificial Intelligence, Machine Learning, Internet Architecture

Expected May 2026

New York University, Stern School of Business

Relevant coursework: Fintech, M&A Strategies, Bankruptcy and Restructuring

NMIMS University, MPSTME

Bachelors of Technology, Computer Engineering

Implemented AI-driven biomedical pipeline for pneumonia detection.

Awarded for top entrepreneurial excellence among peers.

2018 – 2024

GPA: 3.33/4

WORK EXPERIENCE

Quant Strategy Intern, Hedge Fund Division, MachineTrader.io, New York, United States

Jun 2025 – Present

- Develop algorithmic trading strategies and build the supporting infrastructure to optimize portfolio performance.
- Partner with trading and research teams to integrate technology solutions with investment strategies.

Quant Intern, MachineTrader.io, New York, United States

Jun 2025 – Present

- Engineered and deployed AI-powered quant strategies and Python-based high-frequency trading algorithms with advanced API augmentation, **unlocking estimated profits nearing \$300k**.
- Automated, scaled, and optimized trading infrastructure by rigorously iterating, backtesting, and refining real-time models for maximal risk-adjusted **returns slashing API latency rates by 60%**.

Research Assistant, NYU Stern School of Business, New York, United States

Aug 2021 – Present

- Spearheaded **agentic AI research initiatives in the BFSI sector under Professor Edward Altman**, pioneering new methods to detect and audit credit-based AI impacts in financial systems.
- Analysed, validated, and implemented robust protocols ensuring transparency, compliance, and fairness in **AI-driven credit assessment strategies**.

Financial Strategist, Algobulls, Mumbai, India

Aug 2021 – Jan 2024

- Streamlined innovative trading strategies using insights from experienced traders & data scientists, resulting in a **15%+ return** through risk management and performance-driven refinements.
- Designed and implemented **Python-based backtesting frameworks using LSTMs and reinforcement learning models** to evaluate and optimize trading algorithms, identifying 15+ profitable investment opportunities.

Full Stack Developer Intern, EmReach, Mumbai, India

Dec 2021 – Apr 2022

- Enhanced web application performance using AMP, **slashing bounce rates by 60%** and elevating mobile conversion rates by **25%**.
- Spearheaded API enhancement and UI/UX development for a Fintech trading app with a projected **\$10M revenue** potential.

Data Science Intern, KIFS Trade Capital, Mumbai, India

May 2021 – Jun 2021

- Supported the development of a trade system to enhance trade execution, manage risks, and analyze market trends, **using Python and R to analyze over 100M financial data points**.
- Strengthened software development and robust risk management through practical experience with C#, C++, and **quantitative finance techniques**, producing 5+ risk metrics that reduced portfolio volatility by 12%.

Android Developer Intern, EmReach, Mumbai, India

May 2019 – Jul 2019

- Engineered 5+ responsive Android and web applications, **improving user engagement by 20%** through optimized interfaces and seamless performance.
- Executed end-to-end software development, from UI design to deployment, on 5+ Android/web apps during internship.

LEADERSHIP EXPERIENCE

Founder & CEO, TWODS Capital

Sep 2021 – Present

- Managed a diverse investment portfolio, **ensuring 16% CAGR growth for 300+ clients**.
- Delivered actionable investment strategies that **contributed to a 3x increase in daily active users and drove 600k+ website engagements**.

Co-Founder, Escape Inc

Jun 2023 – Present

- Deployed scalable web apps with 100ms load times and 99.9% uptime across 2 production environments.
- Automated deployment through CI/CD pipelines and devOps practices to **enhance deployment efficiency and reducing release cycle time by 60%**.

AWARDS & LICENSES

Student Ambassador Award (NMIMS, Apr 2024): Honored for leadership, community engagement, and academic excellence as a Computer Engineering student among a cohort of 300.

Licensed in Equity and Currency Derivatives – National Institute of Securities Markets (NISM), India: Enabled to execute and oversee 100k+ derivative trades annually, aligned with Indian SEBI regulations.

SKILLS

Programming & Development: Python, C++, Java, JavaScript, SQL

Web & Systems: React.js, Node.js, Web Technologies, Database Management, Cloud Computing

AI & Data Science: Machine Learning, Neural Networks, NLP, Data Mining, Optimization Algorithms

FinTech & Quantitative Analysis: Algorithmic Trading, Backtesting, High-Frequency Trading (HFT)