# PRAKHYATH SHIVAPPA

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## SUMMARY

Detail-oriented Financial Engineering graduate with a strong foundation in quantitative analysis and statistical modeling seeking to leverage my experience in risk analysis at a leading financial firm. Proven track record of risk analysis and automation, with a keen interest in applying these skills across various platforms to drive profitability and efficiency.

## EDUCATION

**Masters of Science in Financial Mathematics** May 2024
**Stevens Institute of Technology, Hoboken, NJ** 3.9 GPA
Relevant Courses: Stochastic Calculus, Pricing and Hedging, Market Microstructure, Financial Risk Management, Computational Methods in Finance, Portfolio Theory, Advanced Derivatives, Time Series Analysis, Hedge Funds Strategies

**Bachelors of Engineering in Mechanical Engineering** Jun 2019
**PESIT, Bengaluru, India**
Relevant Courses: Management and Engineering Economics, Financial Management, Operations Research

## SKILLS

**Programming :** C, C++, Python, SQL, R, Excel
**Technical Skills:** Strong understanding of financial market and trading strategies. Expertise in option pricing, statistical analysis, data modeling, risk management, Object Oriented Programming, Data Structure and Algorithms

## ACHIEVEMENTS

- Successfully passed the FTMO trading challenge, awarded a $10,000 trading account, ranking in the top 1% of participants
- Achieved 118th rank globally out of 8k+ teams in the IMC Trading Prosperity Challenge
- Represented India as a professional Ashtanga yoga practitioner at the International Yoga Festival in Rishikesh, India

## PROFESSIONAL EXPERIENCE

**Teaching Assistant - Stevens Institute of Technology, Hoboken, NJ** Sep 2022 – May 2023
- Demonstrated expertise in financial data analysis, data extraction, and market research using Bloomberg tools by mentoring 20+ Bloomberg and Thomson Reuters students.
- Enhanced leadership and mentorship by guiding students, resulting in a 30% improvement in project completion rates.

**Quantitative Research Analyst - Ebullient Securities Pvt, Gurugram, India** Oct 2021 – Jun 2022
- Collaborated with algorithmic strategy teams and vendor data handlers to develop an in-house trading system, boosting trading efficiency by 30% and improving execution accuracy by 25%.
- Managed a diversified portfolio worth USD 1.5 million, comprising stocks, derivatives, and ETFs, and implemented risk management strategies that minimized losses and maximized returns.
- Supervised and mentored 4 interns, enhancing their skills in extracting and analyzing financial market data from global reports using SQL, resulting in a 20% improvement in data accuracy.

**Research Analyst Trainee - Ebullient Securities Pvt, Gurugram, India** Sept 2020 – Aug 2021
- Assisted senior analysts with research of trading algorithms, contributing to the development of advanced strategies.
- Backtested long-short multi-factor strategies using Omega Research Software and Python with historical ETF and currency data, resulting in a 20% increase in alpha, optimized portfolio performance, and managed extensive data.
- Analyzed how different parameters affect portfolio performance and wrote detailed research reports for management, providing actionable insights and recommendations.

## ACADEMIC PROJECTS

**QWIM (Capstone Project with Bank of America)** Feb 2024
- Engineered and assessed three advanced portfolio construction models using network analysis, negative skewness, and machine learning techniques, resulting in a 5% improvement in investment decision-making processes.
- Optimized portfolio performance, significantly boosting key metrics in portfolio management such as risk-adjusted return, diversification, and dynamic asset allocation.
- Achieved annualized returns of 10.78% for machine learning, 9.34% for negative skewness, and 6.07% for network analysis, markedly exceeding the minimum variance benchmark of 4.67%.

**Realized Volatility Prediction** Mar 2023
- Crafted predictive models for short-term stock volatility, delivering insights into expected price fluctuations over 10-minute periods, and achieved an RMSPE of 0.341 across diverse sectors during evaluation.
- Utilized Naive Bayes classification, integrating features like price trends, trading volume, and market indicators, to provide crucial insights for pricing options and other financial products.