

Work Experience

Sparkling Jewelry Inc Financial Analyst

Los Angeles, CA
Mar. 2025 - Present

- Built integrated financial and commodity-pricing models linking gold, diamond, and FX trends to sales velocity and cost structures, improving forecast accuracy by 18 % and optimizing working-capital allocation for a \$15 M inventory portfolio
- Developed hedging analytics dashboards in Power BI and Python (Pandas, NumPy) to evaluate derivative efficiency and market-exposure correlations, strengthening gross-margin protection by 230 bps
- Automated ERP–Excel VBA pipelines consolidating procurement, pricing, and sales data, reducing monthly reporting turnaround by 45% and enhancing liquidity visibility across three divisions
- Conducted scenario and sensitivity analyses on commodity volatility, interest-rate shifts, and currency fluctuations to guide purchasing and capital-planning decisions

360 Huntington Fund Sector Manager

Boston, MA
Sept. 2023 - Dec. 2024

- Directed equity research and sector allocation for a \$1.5M student-managed fund, generating 2.6% alpha and outperforming the benchmark through disciplined portfolio construction
- Built DCF, relative valuation, and sensitivity models in Excel and Python, estimating intrinsic values within $\pm 5\%$ of market targets
- Conducted factor exposure and performance attribution using Bloomberg Terminal and FactSet, identifying key drivers of excess returns
- Applied mean-variance optimization (MVO) and Monte Carlo simulation to enhance diversification and reduce volatility across market regime
- Authored investment theses and quarterly committee reports, integrating valuation catalysts, macro trends, and downside-risk assessments

Parth Saspara & Co Investment Analyst

Surat, India
June. 2021 - July 2023

- Oversaw \$1M+ AUM across 30 client portfolios, achieving an average CAGR of 9.4 % while maintaining strict risk-tolerance
- Designed Python-based fixed-income ladder and equity glide-path simulations, optimizing yield by 120 bps and improving duration matching for long-term clients
- Reconstructed clients' portfolios by executing tactical reallocations and liquidity analysis, reducing inactive or illiquid holdings by 60%
- Developed performance-attribution and benchmarking templates in Morningstar Direct, and Excel VBA, enabling faster monthly reporting and improving data transparency by 40%
- Conducted quantitative fund screening on 80 + SMAs and mutual funds using alpha, Sharpe, and manager-tenure metrics to enhance manager selection and portfolio diversification

Skills and Certifications

Financial & Investment Analysis: Equity & Fixed-Income Research, Portfolio Monitoring, Valuation (DCF, Comps, NAV), Risk/Return Attribution, Factor Modeling, Asset Allocation, Performance Benchmarking, Financial Forecasting

Data & Quantitative Tools: Excel (VBA, Power Query), Python (Pandas, NumPy, scikit-learn), SQL, Power BI, Tableau, R, MATLAB

Modeling & Analytics: Financial Modeling (DCF, Monte Carlo, Scenario & Sensitivity Analysis), Portfolio Optimization, Time-Series Forecasting, Regression Analysis, Quantitative Strategy Back testing

Platforms & Systems: Bloomberg Terminal, FactSet, Morningstar Direct, SAP, Hyperion, Alteryx, Adaptive Planning

Certifications: Bloomberg Market Concepts (BMC) | Securities Industry Essentials (SIE) – FINRA | CFA Level I Candidate

Projects

Portfolio Optimization & Risk Analysis:

- Built a Python-based Black-Litterman and Monte Carlo simulation model to optimize a 26-stock S&P 500 portfolio, improving expected return by 8% and Sharpe ratio by 0.2 while reducing downside risk by 15%

Option Pricing Models (Binomial vs. Black-Scholes):

- Implemented Black-Scholes and Binomial frameworks in Python using stochastic calculus, achieving 95% pricing accuracy and reducing model error from 12% to $<1\%$ across NVDA and S&P 500 options

Stochastic Trading Strategy — Bitcoin & Semiconductor Correlation:

- Engineered a Python-based mean-reversion model using 2D Brownian motion on a 0.75 BTC–semiconductor correlation, generating 13.7% annualized return and cutting downside risk by 15% through multi-year back testing (2014–2024)

Education

Northeastern University

Master of Science in Quantitative Finance

Boston, MA
Sep. 2023 - Dec. 2024

Coursework: Investment Analysis, Quantitative Portfolio Management, Empirical methods, Derivative and Risk Analysis, Merger and Acquisition, Valuation methods, Corporate Finance, Financial Math, Data Analytics in Finance, Real Estate Finance

Sardar Patel University

Bachelor of Business Administration and Bachelor of Law ~ Juris Doctor

Gujarat, India
Jul. 2018 - May 2023