# AKSHAY SRINIVASAN

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## Education

**Columbia University, New York, NY** **Aug 2024 – Dec 2025**
Master's of Science in Financial Engineering
*Relevant Coursework:* Optimization Models and Methods, Asset Pricing, Stochastic Models, Structured and Hybrid Products, Applications Programming in C/C++

**New York University, New York, NY** **May 2023**
Bachelor of Arts in Mathematics, Data Science, and Economics (Triple Major)
*Relevant Coursework:* Fundamentals of Machine Learning, Advanced Topics in Data Science, Mathematics of Finance, Combinatorics, Probability and Statistics, Intro to Econometrics, Data Structures, Linear Algebra, Data Management and Analysis

## Professional Experience

**Solidigm Technologies** **Jan 2022 – Oct 2023**
*Scrum Master and Data Analyst Intern*

- Spearheaded the development of Customer Experience Dashboards, enhancing testing efficiency and quality coverage.
- Led cross-functional teams in product validation, facilitated strategic sessions by defining OKRs, KPIs, and aligning team efforts with company goals.

**Intel Corporation, CA** **May 2021 – Dec 2021**
*Scrum Master and Data Analyst Intern*

- Applied advanced data analysis to uncover insights and establish causal relationships for decision-making.
- Developed comprehensive product validation dashboards, improving project status visibility and planning.

**Elm Grove Partners, CA** **May 2020 – Sep 2020**
*Mergers & Acquisition Analyst*

- Executed due diligence and financial analysis on M&A targets, providing metrics-based advisories.
- Established a deal-flow management system, enhancing M&A tracking and strategy development.

## Projects

**Portfolio Construction using Black-Litterman and Factors** **Aug 2024**

- Integrated factor-based investing with the Black-Litterman model using 32 factors across diverse asset classes and markets.
- Applied weight allocation methods, including Mean-Variance Optimization and Maximum Sharpe Ratio, under different risk aversion scenarios, and backtested against market conditions over five years.

**Collaborative Filtering for Movie Rating Predictions** **Aug 2023**

- Executed a capstone project to predict movie ratings, refining recommendation systems with SVD-based models.

**Wildfire Prediction Using Machine Learning on Climate Data** **May 2023**

- Created a project forecasting wildfire features using climate data, evaluated various ML models, and reduced multicollinearity with PCA.

**Credit Default Prediction Using Machine Learning** **May 2022**

- Developed a machine learning model for predicting financial distress, optimizing performance with XGBClassifier.

## Technical Skills

**Programming:** Python (Pandas, NumPy, SciPy, Scikit-learn, PyTorch), Java, R, SQL, MATLAB, C++
**Quantitative Analysis:** Stochastic Calculus, Statistical Modeling, Time Series Analysis, Monte Carlo Simulation
**Finance:** Financial Modeling, Risk Management, Portfolio Optimization, Derivatives Pricing
**Tools:** Bloomberg Terminal, Tableau, Excel (VBA), Git

## Certifications

**CFA Level 1 Candidate** **Expected Aug 2024**
**Certificate of Quantitative Finance Candidate** **Expected Aug 2024**