

Faraz Samie

425-623-2950 | Fsamie@ucsd.edu | Professional Portfolio: farazsamie.github.io/ | LinkedIn: linkedin.com/in/farazsamie | Github: github.com/Farazsamie

Experience:

Financial Economics Research Assistant | University of California, San Diego

January 2025 – June 2025

- + Leveraged Python to clean over 10,000 data points, uncovering trends that improved the accuracy of forecasts by over 25%.
- + Analyzed 15+ mathematical models, improving asset pricing model accuracy and resulting a total of 6 research presentations.
- + Collaborated with peers to improve scraping efficiency by over 61%, enabling us to promptly analyze larger amounts of data.

Private Equity Intern | Indus Growth Fund

November 2024 – January 2025

- + Assessed 15+ private technology companies, identifying 5 key strategic opportunities with projected IRRs above 14 percent.
- + Performed industry and competitive research to support due diligence on potential acquisitions across technology sector.
- + Developed Discounted Cash Flow (DCF) financial models to increase forecast accuracy and evaluate investment potential.

Leadership Experience:

Risk Management & Equity Analyst | Hedge Fund Club, UC San Diego

January 2024 – June 2025

- + Led market research by leveraging 10-K and SWOT analysis, resulting in over 3 opportunities to local hedge fund managers.
- + Modeled scenarios using beta and macroeconomic factors, optimizing portfolio strategies and improving risk/return ratios.

ESG Equity Analyst | Sustainable Investment Group

October 2024 – June 2025

- + Evaluated 15+ sustainable companies through ESG metrics, identifying 5+ investment opportunities with over 13% returns.
- + Applied Python screening algorithms to filter over 500 companies by ESG scores, reducing research time by over 36 percent.

Customer Relations Experience:

Sales Associate | Adidas

March 2021 – July 2021

- + Utilized persuasion and sale tactics to assist clients with merchandise, boosting sale volumes by a daily average of over 11%.
- + Efficiently managed tasks during high traffic periods through time management and communication, earning team recognition.

Project Portfolio:

Bridgewater Associates Forecasting Competition

<https://farazsamie.github.io/images/RP4P.pdf>

- + Built probabilistic models that analyzed over 60+ economic indicators, assessed fit with Q-Q plots and residual diagnostics.
- + Engineered time series model using Monte Carlo and volatility analysis, generating future risk scenarios with 98% confidence.

Spotify User Segmentation & Data Clustering

<https://github.com/Farazsamie/spotify-data>

- + Segmented user data across 20+ variables in R by engineering behavioral metrics and applying K-means, revealing 4 clusters.
- + Created cluster visualizations to highlight engagement trends and guide strategies, boosting premium adoption by over 12%.

Machine Learning Equity Prediction Model

<https://farazsamie.github.io/projects.html>

- + Utilized NumPy to build stock prediction model to analyze FB data using Linear Regression & ML Support Vector Regression.
- + Evaluated model using R^2 and cross-validation on 80/20 train test split, validating predictions over 10,000+ data points.

Academia Research:

Texas Stock Exchange (TXSE) | Market Operations Report

<https://farazsamie.github.io/images/RP2P.pdf>

- + Enhanced trade monitoring system, resulting in a 40% improvement with trade issue resolution reducing from 14.2 to 8.5 min.
- + Forecasted corporate migration trends with findings indicating 76 relocations with an average market capitalization of \$8.4B.

Taiwan Semiconductor Manufacturing Company (TSMC) | Financial Cost Optimization Analysis

<https://farazsamie.github.io/research.html>

- + Modeled cost scenarios revealing 25-35% potential cost reduction opportunities worth around \$456-660M in operational savings.
- + Implemented yield improvement initiatives targeting 1% gains to reduce cost per good wafer by 10% through process optimization.

Education:

University of California, San Diego

Bachelor of Science: BSc Business Economics

Minor: Technology & Supply Chain Management

Diablo Valley College

Associate of Science: AsT, Business Administration

Associate of Art: AaT Economics | *Summa Cum Laude*

Licenses & Certificates:

Bloomberg Market Concepts, Bloomberg ESG, Bloomberg FF

Languages:

English | Native, Urdu | Intermediate, Arabic | Basic

Analytical & Programming Proficiencies:

Microsoft Excel, Python, SQL, R (Programming Language), HTML, CSS, Tableau, Stata, StatsModels, PowerIB, Bloomberg Terminal, Microsoft Word, DBC Finance, Microsoft Powerpoint, JMP, BigQuery, Systems, Applications & Products (SAP), Salesforce, Java