

Faraz Samie

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Experience:

Financial Economics Research Assistant | University of California, San Diego

- + Leveraged Python to scrape and analyze over 10,000 data points, extracting key insights and improving forecasts by 25 percent.
- + Applied over 15 academic mathematical models to quantify consumer behavior, improving the accuracy of asset pricing models.
- + Presented six econometric research findings and collaborated with graduate students to reduce coding errors by 32 percent.

Private Equity Intern | Indus Growth Fund

- + Assessed over 10 private market companies, identifying 5 key strategic opportunities with projected IRRs above 16 percent.
- + Conducted market research to assess potential acquisitions and evaluate investment opportunities within targeted sectors.
- + Developed DCF and LBO financial models, increasing accuracy by 20 percent and reducing analysis time by 27 percent.

Leadership Experience:

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

- + Led market research, resulting in the analysis over 10 companies and recommendation of three to local hedge fund manager.
- + Collaborated with peers to model risk scenarios, improving hedge effectiveness by 22 percent across the healthcare sector.

ESG Equity Analyst | Sustainable Investment Group

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

Programming Proficiencies:

- + Python
- + SQL
- + R (Programming Language)
- + Java
- + HTML
- + CSS

Analytical Proficiencies:

- + Microsoft Excel
- + SAP
- + Tableau
- + Stata
- + StatsModels
- + Power BI

Other Proficiencies:

- + Microsoft Word
- + Microsoft Powerpoint
- + JMP
- + BigQuery
- + Bloomberg Terminal
- + DBC Finance

Expertise & Interests:

- + Data Analytics
- + Financial Modeling
- + Business Strategy
- + Data Mining
- + Quantitative Analytics
- + Islamic Finance

Project Portfolio:

Bridgewater Associates Forecasting Competition

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

- + Built probabilistic models across 60+ economic indicators, informing \$20M+ fiscal trajectory projections through 2035.
- + Engineered Time Series model, leveraging Monte Carlo and volatility models to assess 2035 risk scenarios with 98% bounds.

Machine Learning Equity Prediction Model

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

- + Utilized Python to construct prediction model, applying ML techniques: linear regression, feature scaling, & data preprocessing.
- + Implemented model evaluation techniques such as cross-validation and R-squared to assess prediction accuracy.

Academia Research:

Texas Stock Exchange (TXSE) | Market Operations Report

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

- + Analyzed corporate migration trends across 5 years, identifying 40% increase in Fortune 500 relocations worth \$78M+ market value.
- + Developed Python-based trade monitoring system, reducing issue resolution time from 25 minutes to 12 minutes average duration.
- + Designed automated compliance framework, achieving 99.87% settlement success rate exceeding industry benchmark targets.

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

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- + Modeled driver-based cost scenarios identifying 25-35% potential cost reduction opportunities worth \$456-660M annual savings.
- + Optimized workforce allocation strategy reducing expatriate staff from 30% to 15%, achieving 18% overall labor cost reduction.
- + Implemented yield improvement initiatives targeting 1% gains to reduce cost per good wafer by 10% through process optimization.

Education:

University of California, San Diego | Rady School of Management

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