ADRIAN ENDERS

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GitHub | LinkedIn | Website

EDUCATION

UC Berkeley   August 2023 – August 2024
Master of Analytics (IEOR Merit Scholarship) GPA: 3.77

UC Berkeley   June 2020 – May 2023
Bachelors of Arts in Economics and Data Science GPA 3.60

Relevant Coursework: Financial Engineering Systems, Stochastic Processes, Econometrics, Portfolio Allocation, Risk Modeling, Techniques of Data Science, Data Structures & Algorithms, Design of Databases.

WORK EXPERIENCE

Economist Apprentice, *Amazon, Seattle WA*   June 2024 – Present
- Worked with Amazon Scholars on internal papers on Forecasting, Portfolios, and Time Series Decompositions.
- Provided impact analysis as a part of the Perfect Order Experience and RISC Econ team to help business teams estimate causal impacts in terms of millions of dollars for initiatives that are implemented worldwide.
- Utilized econometric models such as Double Machine Learning and Bayesian Structural Time Series.
- Collected and managed several data pipelines using AWS platforms for efficient modeling.

Analytics Ambassador, *UC Berkeley, Berkeley CA*   February 2023 – August 2024
- Student Spotlight Q&A Article
- Represented the Master of Analytics program and spoke with prospective and incoming Master of Analytics students as a program ambassador at various events.
- Served as a communications liaison and provided 1-on-1 program advising for students.

Tax Services Intern, *Andersen Tax, San Mateo CA*   June 2022 – August 2022
- Designed and tested a firmwide Tax Technology system to produce a new tax return platform in Excel to optimize data entry and standardize client information to be used by thousands of employees.
- Prepared individual, estate, gift and fiduciary tax returns managing multiple clients' data.

Assistant Rowing Coach, *Bair Island Aquatic Center, Redwood City CA*   May 2022 – August 2022
- Coached the Adult Competitive Masters Team of up to 20 individuals at a time during the early morning.
- Led early morning practices in preparation for a successful racing season with several regional victories.
- Created individualized training programs that utilized positive reinforcement and acute athletic observations.

ACADEMIC PROJECTS

Generative AI for Financial Time Series

Explored the application of different generative models for time series generation, including GAN, VAE, and Consistency models. Used limited GPU clusters and data reduction techniques in the hopes of matching industry standard discriminator scores for measuring the similarity of synthetic to original data.

Causal Inference of Government Transportation Spending

Compared Bayesian Linear Regression and Non-Parametric Tree Models to predict the effect of government spending on unemployment. Used propensity weighting to increase accuracy of the average treatment effect. Calculated model error rates to compare the effectiveness and for future fine-tuning purposes.

Black-Scholes Brownian Motion Modeling and Dashboard

Cleaned and Interpreted Yahoo Finance data in Python to create 1,000 stochastic stock price forecasts. This was achieved by calculating the stock's individual moving average and variance to provide the stock's possible movement over a dynamic forecasting time horizon.

ATHLETICS & LEADERSHIP

Cal Men's Rowing (2020-2024)
- National Champions in 2022 and 2023.
- Persistence Award Recipient 2024.
- Achieved first place at the California Challenge 2024 in the Cal 4V Boat.
- Managed time effectively while training 25 hours or more every week with an Olympic caliber team.

Technical Skills: AWS (SageMaker AI, S3), Python (PyTorch, PyMC3, Scikit-Learn, Pandas), SQL, R, Java, Excel

Languages: German (Intermediate), French (Novice)