Ritvik Vasikarla

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EDUCATION

Texas A&M University   **College Station, TX**
BS in Economics & Statistics; Minor in Mathematics   *May 2025*
Department of Arts and Sciences   *GPA: 3.70/4.00*

PROJECTS

Data Science Role Analysis   **College Station, TX**
LinkedIn Web Scraper   *June 2024 – September 2024*
- Automated data scraping LinkedIn using Selenium gathering 1000+ job postings
- Cleaned and organized 100,000+ data points, ensuring 100% data consistency by removing 5% duplicates and resolving 10% missing values
- Applied Apriori algorithm, identifying 15 key trends between job positions and required skills, providing insights into the top 10 most in-demand skills for the industry

Nathan Nunn Replication Study   **College Station, TX**
Instrumental Variable Replication   *March 2024 – May 2024*
- Conducted a thorough IV replication of Nathan Nunn's paper "The Long Term Effects Of Africa's Slave Trade" utilizing python libraries like Pandas, Numpy, and MatPlotLib to visualize data and create OLS regressions
- Implemented a Double LASSO regression to penalize 8 redundant variables reducing impact to standard error by 12%
- Extrapolated these results over a 20 year time series graph to analyze the impact of the analysis through 2020

Stock Price Prediction Model   **College Station, TX**
Trading Algorithm   *February 2024 – April 2024*
- Implemented LSTM neural networks, linear regression, and time series analysis in Python, achieving a predicted return accuracy of 19% using Yahoo Finance stock data
- Enhanced model performance by optimizing hyperparameters through grid search and cross-validation, resulting in a 15% reduction in mean absolute error (MAE)

Fantasy Football Analyzer   **College Station, TX**
Machine Learning Model   *November 2023 – December 2023*
- Applied machine learning algorithms to create a custom ranking system, which increased the accuracy of fantasy player rankings by 25%
- Improved model accuracy by 20% compared to traditional methods by integrating regression analysis, feature selection, and statistical computing

WORK EXPERIENCE

Undergraduate Research Assistant   **College Station, TX**
Department of Economics   *August 2023 – Present*
- Conducted advanced statistical analyses on over 20,000 data points utilizing Python, leading to the identification of critical user behavior patterns that directly influenced product development priorities
- Applied econometric models to assess the impacts of political affiliation on electric vehicle adoption, contributing to the department's ongoing research initiatives

Texas A&M Economics Society   **College Station, TX**
Marketing Officer   *August 2022 – Present*
- Spearheaded eight interactive workshops that improved economic literacy, with 80% of participants reporting increased understanding of financial concepts
- Initiated and managed social media campaigns resulting in a 150% increase in new members to grow the Economic Society's organization further

LEADERSHIP

The Big Event   **College Station, TX**
Jobsite Team Leader   *August 2022 – Present*
- Directed 34 volunteers in delivering 145 hours of community service streamlining project execution across 3 sites
- Oversaw an individual group of 10 volunteers in clearing over 200 lbs of wood into a burn pile for the local elderly

SKILLS | CERTIFICATIONS | AWARDS | ACTIVITIES

Skills: Python, C++, Java, SQL, R, Seaborn, Matplotlib, Econometrics, Statistical Computing, Data Analysis, Machine Learning
Activities: Texas A&M Economic Society, Texas A&M Data Science Club, Tamu Datathon, The Big Event, Intramural Sports
Interests: Computer Programming, AI/ML Models, Texas A&M Basketball, Philosophy, Boston Sports, Reading, Card Games
Certifications: CS50, Social Impact Strategy: Tools for Entreprenuers and Innovators, IBM Data Science