Mia Thompson

miathompson.dev | mia.thompson@example.com | (646) 543-2198 | github.com/miathompson | linkedin.com/in/miathompson

Education

Georgetown University Aug. 2017 – May 2021
Bachelor of Arts in Economics and Data Science *Washington, DC*

- **Relevant Coursework**: Statistical Inference, Data Visualization, Economic Modeling, Computational Economics
- **GPA**: 3.89/4.00
- **Activities**: Georgetown Data Analytics Club, International Economics Association, Research Assistant for Behavioral Economics Lab

University of Pennsylvania Aug. 2022 – Present
Master of Science in Analytics and Machine Learning *Philadelphia, PA*

- **Research Focus**: Time Series Analysis and Predictive Modeling for Financial Markets
- **Activities**: Penn AI Society, Data Science Student Council, Graduate Assistant for Applied Analytics Course

Experience

Data Science Intern Jun. 2021 – Aug. 2021
Federal Reserve Board *Washington, DC*

- Developed machine learning models to predict inflation trends, achieving **95% accuracy** in backtesting.
- Analyzed **10 years of macroeconomic data** using Python and R, providing insights for monetary policy decisions.
- Automated data cleaning pipelines with pandas and SQL, reducing processing time by **40%**.
- Presented findings to a panel of economists and policymakers, receiving commendations for clarity and impact.

Research Assistant Sep. 2020 – May 2021
Georgetown University Economics Department *Washington, DC*

- Collaborated on a behavioral economics study exploring the impact of incentives on consumer decision-making.
- Designed surveys and experiments for **1,500+ participants**, analyzing results with R and Stata.
- Authored a publication in the **Journal of Behavioral Economics**, detailing key findings.
- Built econometric models to assess policy implications, enhancing predictive power by **20%**.

Projects

RetailTrend Analytics Platform *Python, Django, Tableau, PostgreSQL*
Feb. 2022 – May 2022

- Developed a platform for retail companies to visualize sales trends and optimize inventory management.
- Integrated time series forecasting models, improving demand prediction accuracy by **30%**.
- Created dynamic dashboards with Tableau, providing real-time insights for **50+ users**.
- Deployed the platform using AWS, ensuring **99.9% uptime** and scalability.

EcoFin Predictor *R, Shiny, SQL*
Sep. 2021 – Dec. 2021

- Built a Shiny application to forecast energy market trends and carbon pricing scenarios.
- Utilized econometric models and time series analysis to predict **2-year price trends** with **92% accuracy**.
- Optimized SQL queries to handle **large-scale datasets** with over **2M+ records**.
- Collaborated with energy policy researchers to ensure actionable insights and user-friendly interfaces.

Technical Skills

Languages: Python, R, SQL, JavaScript, Stata

Frameworks: Django, Flask, Shiny, D3.js

Tools: Tableau, AWS, Git, PostgreSQL, pandas, NumPy

Technologies: Time Series Analysis, Predictive Modeling, Data Visualization, Econometrics