Michael Boerman

Data scientist with M.S. and 3 years experience driving decisions by modeling financial and economic data.

 michaelboerman@hey.com **J** 484-219-7563 in linkedin.com/in/michael-boerman Contact Portfolio www.michaelboerman.com ■ YouTube channel **△** Covid: How Long Did You Last? Professional **Discover Financial Services** Job History Lead Data Science Analyst October 2022 - Present Summary: Forecast credit chard charge-off rates using time series econometrics • Transformed messy development time-series and machine learning code (Python, R) into fullytested, scalable production code. • Created and maintained documentation for every process owned by the team using markdown and git under the Diataxis documentation framework. • Transitioned the team's file and code management from local storage to Sharepoint and Github. Federal Reserve Board of Governors December 2021 - October 2022 Financial Systems Analyst (Data Engineering) Summary: Automate data ingestion and analysis for financial regulation data (CCAR). • Automated business processes, data ingestion, and data analysis with R, Python, and SQL. Communicated performance metrics by creating interactive dashboards in R Shiny and Tableau. • Created machine learning models to detect outliers in bank submission data. Senior Research Assistant (Data Science) May 2020 - December 2021 Summary: Developed inflation and GDP forecasting models used in FOMC monetary policy. Links to Work: Predicting the Present and Covid Lockdown Severity Index • Collaborated with economists to create statistical models and econometric forecasts using statespace time series, dynamic factor models, and ARIMA models. • Deployed models to production using Gitlab CI/CD pipelines. • Wrote and refactored code in R and Matlab for more than 10 statistical models and over 50 unique visualizations across 30 git repositories. Developed and maintained 3 in-house R packages with over 100 functions used in more than 250 scripts. • Built a documentation website in R Shiny for version-controlled, wiki-based documentation. **EDUCATION** Georgia Institute of Technology, Atlanta, GA, USA August 2019 - May 2020 M.S. in Applied Economics, concentration in statistics and econometrics GPA: 4.0 University of Alabama in Huntsville, Huntsville, AL, USA August 2015 - May 2019 B.S. in Industrial & Systems Engineering; minor in Astrophysics GPA: 4.0 Competencies Time series analysis, econometrics, forecasting, regression analysis, predictive modeling, ETL/ELT,

PROGRAMMING Python, R, SQL (Postgres, Snowflake), Airflow, git, linux, shell/bash, Tableau, MATLAB

database development, data visualization, git version control, Agile, CI/CD, technical writing