Andrew B. Alsup

470-365-6596
andrewbalsup@gmail.com
Portfolio: https://andrewbalsup.github.io/
Github: https://github.com/AndrewBAlsup

Education

Georgia Tech Professional Education   Expected Aug 2024
   Online Masters of Science in Analytics – Analytical Tools Track
      3.80 GPA

Georgia Tech College of Sciences   Graduated Dec 2020
   Major in Mathematics – Concentration in Probability and Statistics
      Dean's List 2016-2020

Cultural Experiences Abroad   June 2018 – Aug 2018
   Studied Spanish and Photography in Barcelona

Projects

Mountain Project Web Scraper and Text Analysis   Aug 2022 – Today
   Scraped route and area data from mountainproject.com with Beautiful Soup and Selenium
   into a MySQL database. Assign tags with natural language processing.

Homeownership Rate Time Series Analysis   Aug 2022 – Dec 2022
   Group project. Checked if economic variables could help predict an anomalous spike in
   homeownership rate. Compared the prediction performance of various time series models.

Heat Wave Research   Aug 2019 – Dec 2019
   Gathered and cleaned weather data. Calculated nationwide daily heat index from 1979 to
   2019. Generated plots to identify areas at risk to heat waves.

WxChallenge Competitor   Aug 2018 – May 2020
   Created and maintained a regression model to forecast the weather at given city. Placed 2nd
   for junior and senior undergraduates and 9th overall out of 1,300 contestants.

Weather Model Comparison   May 2019
   Compared the prediction performance of two numerical models (NAM and GFS) in Georgia.

Skills

Data Analysis
   Data Scraping, Data Preparation, Data Visualization, Scalable Computing, Classification,
   Regression, Time-Series Models, Probability Models, Optimization, Simulation, Tree-based
   Models, Change Detection, Design of Experiments, Text Analysis, Business Analytics

Data Tools
   Python, R, SQL, Git, Tableau, Apache Spark, HTML, JavaScript, D3, Java, MATLAB

Mathematics
   Probabilities, Information Theory, Numerical Analysis, Mathematical Proofs, Combinatorics,
   Multivariable Calculus, Linear Algebra, Complex Analysis, Partial Differential Equations

Miscellaneous
   Microsoft Office, Giving Presentations, Micro Economics, Synoptic Meteorology

Work Experience

Cashier/Waiter at Wildflour in Alpharetta, GA   June 2016 – Aug 2016
   Switched between working the register and serving customers depending on the demands.

Extracurricular

Rock Climbing
   Taught club members the skills to safely lead climb outdoors. Systematically helped club
   members overcome fear of falling. Lead club workouts and organized climbing trips.

Aviation
   Certified private pilot. Can communicate effectively at the 2nd busiest airport in Georgia.