Killian Cimino

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Versatile data analyst with experience using machine learning and statistical modeling to solve complex problems and inform business decisions. Develop and implement creative solutions in a team or independently. Communicate insights to management effectively. Implement algorithms from academic papers from scratch.

Skills

- Machine Learning (Supervised, Unsupervised)
- Statistical Modeling (Time Series Forecasting)
- Experimental Design (A/B Testing, Causal Inference)
- Data Visualization
- Exploratory Data Analysis
- Data Cleaning and Transformation (ELT)

Technical Proficiencies

Python (scikit-learn, pandas, numpy, Keras, Tensorflow), R (Tidyverse, Caret, ggplot2), SQL (Redshift, MySQL), Git (Gitlab, GitHub), dbt, Excel/Google Sheets, Linux

Education

Bachelor of Arts (BA) **Wesleyan University, *Middletown, CT*, Grad: 2022**

Majors: Russian, East European, and Eurasian Studies; Feminist, Gender, and Sexuality Studies

Minor: Data Analysis *GPA: 3.7/4.0*

Related Coursework: Bayesian Analysis, Experimental Design and Causal Inference, Longitudinal Data Analysis, Survival Analysis, Hierarchical Linear Models, Latent Variable Analysis, Applied Economics, Exploratory Data Analysis, Applied Data Analysis

Professional Experience

VROOM - New York, NY **June 2022 – May 2023**

Advanced Analytics Analyst / Data Analyst (Remote)

Provided analyses for multiple areas of business, including acquisition, budgeting, and marketing. Worked closely with the data science team to create a forecast for SKUs required, produce models to predict lead time for cars, and update legacy code for an inventory management system. Delivered weekly reports and provided ad hoc analysis to management with a focus on providing insight on how different marketing scenarios could affect profit. (This position was held full-time, working 40 hours a week.)

- Improved the error metric of acquisition forecast over 50% through utilizing traditional time series and machine learning methods leading to an estimated 5% increase in sales.
- Implemented techniques from academic papers to reconcile forecasts to meet stakeholder's needs which would have otherwise been impossible with the available data.
- Reduced time creating weekly reports by 70% through automation.

Quantitative Analysis Center - Middletown, CT **March 2022 – August 2022**

Lab Manager

Managed projects to ensure completion and set up systems to simplify collaboration, including setting up a Github repo and training other lab workers to use git. Researched methods previously used to digitize records and study group relations to assist with the primary experiment. (This position was held part-time, working 10 hours a week.)

- Created Python Classification model using a combination of pre-built tools and cross training a neural network using Keras to organize 5K digital records, to transform unstructured data into the format needed for analysis

Projects: kcimino.github.io

Discourse Plotly Report: Exploratory report examining data from a club event using Bayesian techniques to to attempt to estimate the underlying distribution of voting scores other features of the data.

M5 Forecasting: Forecast using both time-series and machine learning to predict unit sales for selected Walmart items from the M5 competition. Able to achieve a 52% improvement over a baseline forecast.

Honors and Awards

Wesleyan DataFest: Best Use of Statistical Methods (Teams are given datasets on Friday night and then present their findings Sunday morning)

QuestBridge Scholar