

KILLIAN CIMINO

Knoxville, TN • 865.404.9030 • killian.cimino@gmail.com • [linkedin.com/in/killian-cimino](https://www.linkedin.com/in/killian-cimino)

Versatile data engineer with experience using machine learning and statistical modeling to solve complex problems and inform business decisions. Develops and implements creative solutions in a team or independently. Communicates insights to management effectively. Implements algorithms from academic papers from scratch.

Skills

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

Technical Proficiencies

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

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.

- » Reduced time spent creating reports by 70% each week by updating a SQL-based inventory management system to use dbt.
- » 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.

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.

- » Converted PDFs of handwritten survey records into machine readable images, tracking their source for further analysis.
- » Created Python Document 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 image data into the format needed for analysis

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

PROJECTS: [KCIMINO.GITHUB.IO](https://killiancimino.github.io)

Magic the Gathering Dashboard: Exploratory report examining data from the Scryfall API for Magic the Gathering Cards with a focus on the similarity between the colors.

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