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Alden Felix

Narrative

Data scientist pursuing a career in transforming data into information that can make a global impact. Proficient in coding with R and Python to collect, wrangle, and visualize data to be beautiful and easily understandable, perform and interpret regression analysis, and build machine learning models. Knowledgeable in writing SQL queries.

Education

Master of Science in Social Data Analytics and Research   December 2023 (Expected)
The University of Texas at Dallas, Richardson, Tx   GPA: 3.95/4.0

Bachelor of Science in International Political Economy   December 2022
The University of Texas at Dallas, Richardson, Tx   GPA: 3.82/4.0, Magna Cum Laude*

Relevant Coursework

Data Visualization	Database Management	Data Collection/Production
Machine Learning	Applied Regression	Statistics, Calculus
Econometrics	Mathematical Economics	Upper-Level Economic Theory

Skills

Data Analysis: R (Tidyverse), Python (Pandas, NumPy)
Machine Learning: R, Python: Supervised/Unsupervised, Random Forest, Clustering, NLP
Regression Analysis: R, Python - OLS, GLM
Data Visualization: Tableau, R (ggplot2), Python (Matplotlib, Plotly, Altair), R Shiny, Markdown, R Quarto
Data Collection/Query: R, Python, SQL, PostgreSQL

Academic Projects - https://aldenfelix.github.io/

Predicting Interstate Affinity using Machine Learning/Database Building   January 2023 – May 2023
Designed to generalize conflict prediction and assist the study of state affinity communities & network analysis
- Built original database to compile relevant data that is spread across different sources
- Used Random Forests and Deep Learning to predict relationships between states

Effect of Road Classification on Alcohol Related Crash Severity   August 2022 – December 2022
Designed to research the causal relationship between types of roads and the severity of alcohol-related crashes
- Collected 27,000+ accidents in Collin County from Texas Department of Transportation
- Performed regression analysis using a logit model to answer hypothesis
- Built Shiny application for interactive exploratory data analysis and dashboard for presentation

Exploring Human Mobility using Twitter Data   August 2022 – December 2022
Designed to explore effectiveness of twitter data for human mobility studies
- Collected/scraped 1 million+ tweets using API and non-API methods
- Performed quantitative and qualitative analysis to explore effect of COVID-19 on mobility patterns

Awards & Honors

*Magna Cum Laude – Graduated in top 10% of class   December 2022