

Alden Felix

Narrative

Graduate student pursuing a Master of Science in data analytics with a concentration in socioeconomic analysis. Proficient in coding with R to collect, wrangle, and visualize data, 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 <i>The University of Texas at Dallas, Richardson, Tx</i>	December 2023 (Expected) GPA: 3.95.0/4.0
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Bachelor of Science in International Political Economy <i>The University of Texas at Dallas, Richardson, Tx</i>	December 2022 GPA: 3.82/4.0, Magna Cum Laude
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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, STATA, Excel

Regression Analysis: R - OLS, GLM, Continuous, Count, Dichotomous, Categorical, Bounded

Data Visualization: Tableau, R, R Shiny, R Markdown, R Quarto, Excel

Data Collection/Query: R, SQL, PostgreSQL

Academic Projects

Predicting Interstate Affinity using Machine Learning/Database Building <i>Designed to generalize conflict prediction and assist the study of state affinity communities & network analysis</i> <ul style="list-style-type: none">Built original database to compile relevant data that is spread across different sourcesUsed Random Forests and Deep Learning to predict relationships between states	January 2023 – May 2023
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Effect of Road Classification on Alcohol Related Crash Severity <i>Designed to research the causal relationship between types of roads and the severity of alcohol-related crashes</i> <ul style="list-style-type: none">Collected 27,000+ accidents in Collin County from Texas Department of TransportationPerformed regression analysis using a logit model to answer hypothesisBuilt Shiny application for interactive exploratory data analysis and dashboard for presentation	August 2022 – December 2022
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Exploring Human Mobility using Twitter Data <i>Designed to explore effectiveness of twitter data for human mobility studies</i> <ul style="list-style-type: none">Collected/scraped 1 million+ tweets using API and non-API methodsPerformed quantitative and qualitative analysis to explore effect of COVID-19 on mobility patterns	August 2022 – December 2022
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Awards & Honors

Academic Excellence Scholarship, UT Dallas	August 2019 – May 2023
Hobson Wildenthal Honors College/CV Honors, UT Dallas	August 2019 - December 2022