

Zeying Guo

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EDUCATION

University of Massachusetts Amherst

Master of Science in Data Analytics and Computational Social Science Expected December 2024

Relevant Coursework: Machine Learning, Social Networks, Data Visualization, Text as Data, Experimental Methods for Social Science

University of Massachusetts Boston

Bachelor of Arts in Computer Science

December 2022

ACADEMIC RESEARCH PROJECTS

Deciphering Drug Cost Management Dynamics

- Investigated the complexities of drug cost management within health plans.
- Uncovered intricate relationships between prescription practices, demographic variables, and generic substitution.
- Developed an advanced interaction model yielding actionable insights for enhancing resource allocation in healthcare delivery.

Data Analysis on Animal Shelters in Austin, Texas

- Led data analysis project using Python and R to evaluate adoption and abandonment rates for specific dog breeds at an Austin animal shelter, employing statistical techniques and data visualization to uncover key trends.
- Delivered actionable insights through advanced data analytics, contributing to strategic recommendations that enhanced the shelter's operational efficiency and animal welfare outcomes.

Soccer Data Prediction

- Analyzed coach's player draft through Keras/Tensorflow to train an artificial neural network on the training data and assess its prediction accuracy for future matches using the test data.

Database Management System

- Used Oracle database to manage the number of people in summer camp session activities.
- Identified each camper through a unique Cid and wrote PL/SQL function to examine the interrelationship between zip codes, ages, and activities.

SKILLS

Programming Skills: Python, SQL, R, Java, C, Racket programming language, Assembly, JavaScript, SPSS

Language Skills: English, Chinese (native)