

# Sizhe Wang

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## EDUCATION

### Lehigh University

July. 2022 – May. 2023

#### Master of Science in Business Analytics

Relevant Coursework: Data Management, Predictive Analysis, Statistical Computing, Data Science for Finance

### American University

Aug. 2018 – Jun. 2022

#### Bachelor of Science in Finance

Relevant Coursework: Financial Modeling, Investment Analysis, Derivative Securities, Fixed Income

## Work EXPERIENCE

### USTOSHOP.COM INC

Coppell, Texas

#### Operation Manager

May 2024-Present

#### Business Analyst

Oct 2023- Apr 2024

- Created machine learning algorithms to accurately classify the effectiveness of responses to customer email inquiries.
- Designed a natural language processing pipeline to analyze customs clearance documents and truck payments and integrate it into a database for chatbot input processing.
- Created visualizations to represent the status of cargo entry and exit, customer inquiry themes, and implemented cost-control measures to manage labor costs provided by LLM.

### Pawfect.LLC

Remote, United States

#### Data Analyst

Sep 2023-Jun 2024

- Orchestrated website user experience and engagement with Google Analytics and Google Tag Manager by analyzing users' time on page and using Vader packages for sentiment analysis
- Developed and implemented an automated data collection system to extract medicine information from the PetSmart website. Write scripts combining Selenium and BeautifulSoup for web scraping and parsing.
- Automated data upload to Google Sheets using Google Sheets API and gspread library, streamlining data management processes. Optimized script performance, significantly increasing data collection efficiency and reducing manual operation time.

## PROJECT EXPERIENCE

### JPMorgan Chase & Co. Quantitative Research Virtual Experience Program on Forage

- Completed a simulation focused on quantitative research methods, specifically using logistic regression and decision trees to enhance financial predictions.
- Analyzed a book of loans to estimate a customer's probability of default, using dynamic programming to convert FICO scores into categorical data for more accurate predictions.
- Developed an interactive tool with Decision Tree Classifier to predict loan defaults and calculate expected losses, incorporating logistic regression and financial ratios for model refinement.

### Sentiment Analysis and Web Mining of Amazon Customer Reviews for Scooter Products

- Employed the Selenium package for auto-extraction and processing of Amazon reviews, navigating through each page
- Implemented various ML algorithms and selected Naïve Bayes with Bagging for sentiment classification in Python
- Conducted word cloud and LDA analysis to identify key review terms, guiding product improvement

### Multi-class Weather Image Recognition with Deep Learning

- Developed a CNN model pipeline featuring multiple convolution layers and regularization techniques
  - Refined the model through fine-tuning, resulting in a comprehensive report detailing the prediction classification accuracy
- Implemented data augmentation process with the ResNet model, achieving a 100% accuracy rate in weather identification

## TECHNICAL SKILLS

Software: SAS, R Studio, Python, Oracle SQL, Tableau, Bloomberg, Google Analytics