Min Shi

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EDUCATION

The University of Texas at Dallas   December 2024
Ph.D., Political Science   GPA 3.942
M.S., Social Data Analytics and Research (STEM)   GPA 3.942
M.S., Business Analytics (STEM) – Data Science Track   GPA 4.0
Graduate Teaching / Research Assistantship; John Forrest Kain Scholarship; Government and Political Science Scholarship

WORK EXPERIENCE

School of Economic, Political & Policy Sciences at UTD, Richardson, TX
Research Assistant   May 2020 – Present
- Conduct survey and web data collection, data cleaning, model building, statistical analytics, and report writing for multiple collaborative research projects related to global health, political economy, and public policy
- Supervise undergraduate research assistants to ensure project completion, independent work, efficient collaboration, and adherence to deadlines

Lucion Technology Corp., Ltd., China
Database Management Intern   July 2017 – August 2017
- Collaborated with IT department manager to manage enterprise users' information, orders of services, billing, and the deployed network devices data using MySQL, resulting in a 40% improvement in data extraction efficiency
- Visualized network structures of Lucion Tech. Corp. in Microsoft Visio
- Created weekly business analytics reports based on users' structure analysis and competitor research

Jinan Wangjia Education & Technology Corp., Ltd., China
Data Analyst Intern   March 2016 – June 2017
- Designed questionnaires for assessments of more than 20 courses & teachers, created business intelligence reports for course & staff management, and improved satisfaction rate by 30%
- Upgraded staff & students' information management using the Microsoft Access database system

PROJECT EXPERIENCE

Analysis of the Effect of COVID-19 on US Trade and US Firms, UT Dallas   May 2023 – July 2023
- Synthesized data and created fixed-effect regression models to identify correlations and causal mechanisms
- Developed and Implemented machine learning and deep learning models to conduct counterfactual analysis
- Presented findings at the 2023 Applied Data Science International Conference

Extensive Analysis of Table Spreads Industry (Conagra Brands' Project), UT Dallas   February 2023 - May 2023
- Researched over 1.3 million records to identify key metrics contributing to the sales of top brands
- Evaluated strengths and weakness of Conagra Brands compared to competitors in each sub-category
- Built fixed-effect models and time series models in SAS to predict future directions for Conagra Brands

Geospatial Truck Fleet Big Data Analytics and Visualization, UT Dallas   August 2022 – November 2022
- Processed geospatial data ingestion, transformation, and database creation using the Hadoop ecosystem
- Explored and visualized data in Tableau by connecting to Hadoop ecosystem server
- Conducted modeling to analyze factors affecting truck driver risk and provided recommendations

Payroll Management System Database Design via MySQL, UT Dallas   June 2022 – August 2022
- Led a group of five in designing a MySQL-based payroll management database consisting of 13 tables
- Improved efficiency in ETL processes and payroll database management through the implementation of stored functions, procedures, and triggers

Modeling U.S.-China Trade War's effect on US Multinational Corporations   January 2022 - May 2022
- Generated and managed a new database using PostgreSQL and performed data analysis in Python
- Built time series GARCH models in Stata to examine the effects of U.S.-China trade conflicts on US firms
- Presented the findings at 2022 International Society for Data Science and Analytics Conference

SKILLS & INTERESTS

Programming & Tools: Python, R, SQL, SAS, Stata, Tableau, Power BI, Alteryx, Appian, UiPath, ACCELQ, Microsoft Office
Database & Big Data: MySQL, PostgreSQL, Mango DB, Amazon RDS, Hadoop, Sqoop, Hive, Impala, Pig, Spark
Certificates: Graduate Certificate in Applied Machine Learning at UTD, AWS Certified Cloud Practitioner, Google Analytics, Alteryx Designer Core Certificate, Appian Certified Associate Developer, ACCELQ Automation Engineer
Languages: English, Chinese, Japanese