MIN (MIA) SHI

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EDUCATION

The University of Texas at Dallas — Expected May 2024
Doctor of Philosophy in Political Science — GPA: 3.942/4.0
Master of Science in Social Data Analytics and Research (STEM) — GPA: 3.942/4.0
Master of Science in Business Analytics (STEM) – Data Science Track — GPA: 4.0/4.0

SKILLS

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

WORK EXPERIENCES

Data Researcher Assistant — May 2020 - Present
The University of Texas at Dallas — *Richardson, TX*
Took responsibility for data manipulation and model building for 10+ global health and policy analytics projects.
- Directed the data gathering processes, utilizing diverse methods like sampling, surveys, and web scraping.
- Developed robust statistical models, including multi-variable regression, fixed-effect regression, difference-in-difference, and time-series models, to facilitate correlation and causal inference studies.
- Oversaw a team of over five junior research assistants, ensuring smooth collaboration and timely completion.

Data Science Student Consultant — Aug. 2023 - Dec. 2023
Working for Onyx CenterSource through The University of Texas at Dallas — *Dallas, TX*
Led a team in creating an AI-driven chatbot to enhance customer engagement for online interactions.
- Employed NLP and MySQL for analyzing and querying an extensive database containing over 10 million entries.
- Achieved 25% improvement in response efficiency and provided 99% accurate predictions using XGBoost model.
- Contributed to a 15% rise in user engagement, increasing customer satisfaction and bolstering company's image.

Marketing Data Analyst — Jul. 2017 - Aug. 2017
Lucion Technology Corp., Ltd. — *China*
Served as a Data Analyst Intern responsible for data management, data visualization, and business analysis.
- Improved the efficiency of data extraction by 40% through data optimization in MySQL.
- Employed Microsoft Visio to visualize intricate network structures and aided in product comprehension.
- Produced Business Intelligence (BI) reports, offering insights based on user structures and competitor analysis.

PROJECTS

Forecasting Stock Prices Through NLP Examination of Newspaper Articles — May 2023 - Dec. 2023
- Developed automated web scraping for 7,000+ WSJ articles, increasing data acquisition efficiency by 30%.
- Employed various vectorizers for WSJ article analysis, such as Tfidf Vectorizer, n-grams Count Vectorizer, etc.
- Utilized Naïve Bayes and Random Forest models, enhancing S&P 500 prediction accuracy by 12%.

Analytical Insights and Marketing Strategy Guidance for a Food Company — Feb. 2023 - May 2023
- Handled data cleaning over 1.3 million raw data records using Python, ensuring data quality and accuracy.
- Developed interactive dashboards in Tableau, enhancing data accessibility and supporting business analytics.
- Employed SAS to construct regression and time series models, leading to a 15% increase in forecasting accuracy.

Big Data Risk Analysis and Data Visualization for a Trucking Company — Aug. 2022 - Dec. 2022
- Processed and analyzed geospatial data with Hadoop, Hive, and Spark, reducing processing time by 40%.
- Developed Tableau visualizations linked to Hadoop and built interactive dashboards for business analysis.
- Conducted linear regression and multivariate analysis, contributing to predictive accuracy by 15%.

ORGANIZATIONS

- Member - Data Science Club, UT Dallas
- Member - Texas Dragon Toastmaster's Club