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
John Forrest Kain Scholarship; Government and Political Science Scholarship

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 Science Student Consultant — August 2023 - Present
Onyx CenterSource — *Dallas, TX*
Lead a team to develop an AI-powered online chatbot using large-scale database queries, NLP, and predictive models.
- Utilize NLP and MySQL to analyze and query a vast database of 10 million+ rows, with high ETL efficiency.
- Develop an AI chatbot that reduced response times by 50% and resolve payment inquiries within minutes, improving customer satisfaction for travel agencies and Online Travel Agency (OTA) partners.
- Analyze chatbot interactions, resulting in actionable customer insights that informed strategic decisions, marketing efforts, and product/service enhancements, contributing to a 15% increase in user engagement.

Data Researcher Assistant — May 2020 - Present
School of Economic, Political & Policy Sciences at UTD — *Richardson, TX*
Experienced data analyst with a track record of 10+ projects across global health, education, and political economy.
- Spearheaded data collection via Qualtrics and Python/R for 10+ research projects.
- Utilized ANOVA for group differences in cross-national analysis.
- Led A/B testing using Difference-in-Difference methods for global trade causal inferences.

Technology Data Analyst — July 2017 - August 2017
Lucion Technology Corp., Ltd. — *China*
Data analyst intern at a tech company, in charge of database management, visualization, and business analysis.
- Enhanced data extraction efficiency by 40% using MySQL, optimizing management of user data, service orders, billing, and network device data.
- Visualized complex network structures with Microsoft Visio, aiding structure understanding and decision-making.
- Generated weekly Business Intelligence (BI) reports, extracting insights from user structure analysis and competitor research.

PROJECTS

Python Web Scraping & Natural Language Processing Modeling — May 2023 - Present
- Developed automated web scraping for 7,000+ WSJ articles, increasing data acquisition efficiency by 70%.
- 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%.

Data-Driven Statistics Analysis for Food Industry — February 2023 - May 2023
- Analyzed 1.3 million raw data records with Python, improved critical sales metrics extraction by 30%.
- Created Tableau visualizations via interactive dashboards, increasing data accessibility by 20%.
- Utilized fixed-effect regression and time series models, achieving a 15% improvement in forecasting accuracy.

Big Data Analytics and Data Visualization — August 2022 - December 2022
- Processed and analyzed 100MB+ geospatial data with Hadoop, Hive, etc., reducing processing time by 40%.
- Developed Tableau visualizations linked to Hadoop ecosystem, increasing data accessibility by 50%.
- Conducted regression models, contributing to predictive accuracy by 15%.

ORGANIZATIONS

- Member - Data Science Club, UT Dallas
- Assistant Secretary - Texas Dragon Toastmaster's Club
- Volunteer - Chinese Institute of Engineers/ USA-DFW Chapter

ELIGIBILITY

F1 VISA: Eligible to work in the U.S. for internships and full-time positions on CPT & OPT for up to 48 months.