MIN (MIA) SHI

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EDUCATION

The University of Texas at Dallas — Expected Dec. 2024
Master of Science in Business Analytics (STEM) – Data Science Track — GPA: 4.0/4.0
Master of Science in Social Data Analytics and Research — GPA: 3.95/4.0

SKILLS

Programming & Tools: Python, R, SQL, SAS, Stata, Tableau, Power BI, Alteryx
Database & Big Data: MySQL, PostgreSQL, Hadoop, Sqoop, Hive, Impala, Pig, Spark
Certificates: Certificate in Applied Machine Learning, AWS Certified Cloud Practitioner, Google Analytics

WORK EXPERIENCES

Research Assistant — May 2020 - Present
The University of Texas at Dallas — *Richardson, TX*
Took responsibility for data analysis for 10+ global health/policy projects using advanced statistical models.
- Managed data collection in diverse methods including Qualtrics surveys and web scraping using R and Python.
- Developed 20+ robust statistical models (multi-variable and fixed-effect regression, difference-in-difference, time-series) combined ML models and NLP skills to support correlation and causal inference in research.
- Led a team of five junior assistants, ensuring collaboration and timely project completion and publication.

Data Scientist Student Consultant — Aug. 2023 - Dec. 2023
Working for Onyx CenterSource through The University of Texas at Dallas — *Dallas, TX*
Led the creation of an AI-driven chatbot, enhancing customer engagement through advanced NLP techniques.
- 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 15+ intricate network structures and aided in product comprehension.
- Produced weekly Business Intelligence (BI) reports, offering insights based on user and competitor analysis.

PROJECTS

US Top 4 Airlines Financial Performance Analytics — Jan. 2024 - May 2024
- Analyzed over 10,000 records spanning 20 years to identify financial trends and shifts in the US airline industry.
- Pinpointed key strategic turning points affected by major events and changes in alliances and partnerships.
- Provided specific business model recommendations for enhancing the competitive stance of each top airline.

Kaggle Plant Pathology Competition: Leveraging Deep Learning CNNs — Nov. 2023 - Dec. 2023
Implemented deep learning models using Python and PyTorch to enhance disease identification accuracy in crops.
- Utilized transfer learning on CNNs with 13042 images in 12 categories, enhancing disease identification accuracy.
- Conducted image transformation, including rotation, flipping, zooming, and noise injections to augment data.
- Fine-tuned ConvNext DL CNN models and achieve 86.8% accuracy, securing a Top 3 ranking in the competition.

Forecasting Stock Prices Through NLP Examination of Newspaper Articles — May 2023 - Dec. 2023
Developed automated web scraping tools and machine learning models in Python to predict stock market trends.
- 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%.

Big Data Risk Analysis and Data Visualization for a Trucking Company — Aug. 2022 - Dec. 2022
Engineered data visualization dashboards using Tableau, linked to Hadoop, for business risk analysis.
- 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%.