

# MIN (MIA) SHI

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## EDUCATION

<b>The University of Texas at Dallas</b>	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

<b>Research Assistant</b>	May 2020 - Present
<i>The University of Texas at Dallas</i>	<i>Richardson, TX</i>
Took responsibility for data analysis for 10+ global health/policy projects using advanced statistical models.	
<ul style="list-style-type: none"><li>Managed data collection in diverse methods including Qualtrics surveys and web scraping using R and Python.</li><li>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.</li><li>Led a team of five junior assistants, ensuring collaboration and timely project completion and publication.</li></ul>	
<b>Data Scientist Student Consultant</b>	Aug. 2023 - Dec. 2023
<i>Working for Onyx CenterSource through The University of Texas at Dallas</i>	<i>Dallas, TX</i>
Led the creation of an AI-driven chatbot, enhancing customer engagement through advanced NLP techniques.	
<ul style="list-style-type: none"><li>Employed NLP and MySQL for analyzing and querying an extensive database containing over 10 million entries.</li><li>Achieved 25% improvement in response efficiency and provided 99% accurate predictions using XGBoost model.</li><li>Contributed to a 15% rise in user engagement, increasing customer satisfaction and bolstering company's image.</li></ul>	
<b>Marketing Data Analyst</b>	Jul. 2017 - Aug. 2017
<i>Lucion Technology Corp., Ltd.</i>	<i>China</i>
Served as a Data Analyst Intern responsible for data management, data visualization, and business analysis.	
<ul style="list-style-type: none"><li>Improved the efficiency of data extraction by 40% through data optimization in MySQL.</li><li>Employed Microsoft Visio to visualize 15+ intricate network structures and aided in product comprehension.</li><li>Produced weekly Business Intelligence (BI) reports, offering insights based on user and competitor analysis.</li></ul>	

## PROJECTS

<b>US Top 4 Airlines Financial Performance Analytics</b>	Jan. 2024 - May 2024
<ul style="list-style-type: none"><li>Analyzed over 10,000 records spanning 20 years to identify financial trends and shifts in the US airline industry.</li><li>Pinpointed key strategic turning points affected by major events and changes in alliances and partnerships.</li><li>Provided specific business model recommendations for enhancing the competitive stance of each top airline.</li></ul>	
<b>Kaggle Plant Pathology Competition: Leveraging Deep Learning CNNs</b>	Nov. 2023 - Dec. 2023
Implemented deep learning models using Python and PyTorch to enhance disease identification accuracy in crops.	
<ul style="list-style-type: none"><li>Utilized transfer learning on CNNs with 13042 images in 12 categories, enhancing disease identification accuracy.</li><li>Conducted image transformation, including rotation, flipping, zooming, and noise injections to augment data.</li><li>Fine-tuned ConvNext DL CNN models and achieve 86.8% accuracy, securing a Top 3 ranking in the competition.</li></ul>	
<b>Forecasting Stock Prices Through NLP Examination of Newspaper Articles</b>	May 2023 - Dec. 2023
Developed automated web scraping tools and machine learning models in Python to predict stock market trends.	
<ul style="list-style-type: none"><li>Developed automated web scraping for 7,000+ WSJ articles, increasing data acquisition efficiency by 30%.</li><li>Employed various vectorizers for WSJ article analysis, such as Tfidf Vectorizer, n-grams Count Vectorizer, etc.</li><li>Utilized Naïve Bayes and Random Forest models, enhancing S&amp;P 500 prediction accuracy by 12%.</li></ul>	
<b>Big Data Risk Analysis and Data Visualization for a Trucking Company</b>	Aug. 2022 - Dec. 2022
Engineered data visualization dashboards using Tableau, linked to Hadoop, for business risk analysis.	
<ul style="list-style-type: none"><li>Processed and analyzed geospatial data with Hadoop, Hive, and Spark, reducing processing time by 40%.</li><li>Developed Tableau visualizations linked to Hadoop and built interactive dashboards for business analysis.</li><li>Conducted linear regression and multivariate analysis, contributing to predictive accuracy by 15%.</li></ul>	