

Chenyuan Zhang

📍 Northeastern University(Boston, MA) 📞 +1-857-891-7897 ✉ zhang.chenyu@northeastern.edu 🌐 <https://linkedin.com/in/chenyuan-zhang>

SUMMARY

Data Analyst with hands-on experience in healthcare claim data processing, specializing in automating workflows and optimizing ETL pipelines. Skilled in Python, SQL, and Excel, with a proven track record of improving reporting efficiency and data accuracy in claims operations. Known for strong analytical skills and attention to detail.

EDUCATION

Northeastern University

Sep 2023 - May 2025

Master of Science, Data Analytics Engineering (GPA: 3.82/4.0)

- **Coursework:** Data Mining, Deterministic Operation Research, Database Management

University of Connecticut

Aug 2018 - Jun 2022

Bachelor of Science, Applied Mathematics with Minor in Statistics

WORK EXPERIENCE

BigOne Lab | Data Analyst Intern

Oct 2022 - Feb 2023

- Executed multi-platform brand performance analysis by processing scraped data and producing 5 detailed Excel-based brand performance reports, ensuring data accuracy and driving strategic client decisions.
- Collaborated with the research team to construct an ETL workflow for handling millions of product records, integrating anomaly detection and developing 2 monitoring dashboards that boosted GMV estimation accuracy by 25%.
- Conducted a tailored competitive analysis for a major brand by evaluating key dimensions such as brand positioning, sales channels, and product trends to deliver comprehensive market insights.
- Utilized Python alongside AWS and PySpark to develop an automated system for generating 3 periodic analytical reports, enhancing delivery efficiency by 40%.

CZ AI | Data Scientist Intern

Mar 2023 - Jun 2023

- Collaborated with industry leaders to design and implement a KPI system from the ground up, resulting in 18+ actionable reports that captured market trends and informed strategic decisions.
- Preprocessed and integrated 740,000 textual data entries across 5 categories using NLP techniques, developing an ETL pipeline for multi-source data integration and format standardization before storage in MySQL, thereby demonstrating proficiency in SQL.
- Optimized business intelligence processes by creating 9 automated analytics templates with GPT API integration and working cross-functionally to deploy 3 interactive dashboards, improving decision-making efficiency by 70%.

BUW Human Hair Factory Store | Data Analyst Intern

May 2021 - Jul 2021

- Streamlined e-commerce analysis using the AARRR framework, reengineered KPI structures, and launched over three Tableau dashboards to monitor daily performance, addressing 30% of routine data queries.
- Analyzed user flows to identify a significant 'add-to-cart' drop-off, and proposed detail-page optimizations validated through A/B testing to enhance conversion rates.
- Developed weekly Google Ads reports on ad spend and traffic trends, furnishing key insights that informed C-suite decisions and drove measurable improvements in ROI.

ACADEMIC RESEARCH

Retention Analysis and Inference for MOUD Treatment | Decision Analytics Lab

Jan 2024 - Apr 2025

- Conducted literature review and full data handling, from initial extraction to exploratory analysis and feature selection, for researches on Treatment Retention of Opioid Use Disorder.
- Utilized causal inference and machine learning techniques to identify factors influencing treatment retention, applying propensity score matching to mitigate bias from confounding variables.
- Developed and tested a deep learning forecasting model to forecast treatment discontinuations to enhance healthcare decision-making.

Auto Insurance Risk Assessment Model on Claim Data

May 2022 - Jul 2022

- Developed a predictive model with a dataset of 600,000 samples to improve auto insurance claim prediction accuracy and boost company profits.
- Leveraged data preprocessing techniques like under-sampling to overcome class imbalance and feature engineering to ensure model robustness.

SKILLS

- **Programming Languages:** SQL, R, SAS, Python, PySpark, SciPy, NumPy, Pandas, SciKit-Learn
- **Analytical Tools:** AB Test, Excel, Tableau, ETL, Git, GitHub, AWS, Prompt Engineering, Machine Learning
- **Additional Expertise:** Azure Services, Health Insurance Claims