

ZHELU (Jerry) MAI

Denton, Texas | 940-595-9706 | ZHELUMAI@my.unt.edu | [Personal Website](#) | [GitHub](#)

Education

University of North Texas	Denton, TX
Master of Science, Business Analytics	Jan 2021 – Dec 2022
Chu Hai College of Higher Education (CHCHE)	Hong Kong, China
Bachelor of Business Administration, Finance	Sep 2012 – Dec 2016

Project Experience

Amazon Review NLP Project	Spring 2022
<ul style="list-style-type: none">Cleaned data by removing URLs, emojis, non-ascii characters using regular expressionExtracted linguistic features based on tokenization, POS tagging, and parsing sentence via spaCyTuned parameters via 10-fold cross-validation, SMOTE was used to do oversampling	
Personal Loan Project	Fall 2021
<ul style="list-style-type: none">Abstracted new key features like household incomes from digging zip code using uszipcodeEliminated one highly correlated feature and some outliers through a well-developed EDAObtained 0.96 at Marco f1-score by the designed random forest model	
Housing Prices Competition in Kaggle	Summer 2021
<ul style="list-style-type: none">Gained 5% improvement in accuracy by removing the outliers based on the boxplot via MatplotlibMerged similar features for adjusting the skewed distribution that achieve 2.7% improvement in performanceRanked Top 5% in the leaderboard with the tuned gradient boosting model	

Work Experience

Operation Officer	Nov 2019 – Dec 2020
Bank of China (Hong Kong)	Hong Kong
<ul style="list-style-type: none">Built automatic programs via VBA to deal with 10 daily reports and parts of weekly reports, saving 19% working time, therefore, I was assigned to help the payroll team in managing payroll issuance every day	
Operation Analyst	Nov 2017 – Jul 2019
Dollar General Global Sourcing Limited	Hong Kong
<ul style="list-style-type: none">Improved productivity by 25% through developing VBA automatic programs connecting to the Access, generated 5 daily reports and 7 weekly reports. By doing so I had more time to address ad-hoc projects, etc.	

Skillset

Programming Languages:	Python, SQL, VBA, R, HTML5, JavaScript
Data Visualization:	Tableau, Seaborn, Matplotlib, RStudio, QlikView
Database:	MySQL, SQL Server, MongoDB
Big Data:	Hadoop, Spark, Hive, Pig
Tools:	scikit-learn, Pandas, spaCy , GitHub, PyCharm