Ziyue Zheng (Patrick)

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Coursework/Skills Summary

Statistics

- Mathematic Statistics, Statistical Methods, Multivariate Statistics, Statistical Learning,
- Regression Analysis, Non-parametric Statistics, Time series Analysis, Statistical Computing,
- Deep Learning, Semi-parametric Statistics

Mathematics

- Calculus, Advanced Algebra, Advanced Probability, Numerical Analysis,
- Functional Analysis, Real Analysis, Stochastic Process

Computer Programming

- Python (Numpy, Pandas, Sklearn, Matplotlib, TensorFlow, Keras, Pytorch)
- R (basic R, anova, dplyr, ggplot2, shiny, tidyverse)
- C++, Linux/Shell, MATLAB, SQL, Hive/Hadoop, Spark

Education

UNIVERSITY OF WISCONSIN - MADISON		**Madison, USA**
Master of Science in **Statisti**cs – Data Science	GPA 3.8/4.0	2021-01——2022-12
UNIVERSITY OF CALIFORNIA - LOS ANGELES		**Los Angel, USA**
Visiting Undergrad in Department of Statistics	GPA: 3.65/4.0	2018-07——2018-09
ZHONGNAN UNIVERSITY OF ECONOMICS AND LAW		**Wuhan, China**
Bachelor of Science in Statistics	GPA: 85.7/100	2016-09——2020-06

Project Experience

Research Intern 2022

- Attended a bioinformatic project focusing on multi-modal machine learning on single-cell dataset.
- Did paper survey and review, specific on similarity fusion and multi-modal data fusion.
- Reviewed the code and software from previous literature. Implemented improvement and simulation.

Yelp Reviews Data Analysis 2021

- Scrapping data from Yelp Reviews and perform sentiment analysis on review data.
- Implement the LDA topic analysis model with seasonal effects on reviews
- Studying the impact of restaurant ratings based on cluster analysis.

Bachelor thesis 2020

- Used regression model to fit variables and Lasso and ridge regression for variable selection.
- Improved kernelized SVM method with a penalty constrain to make model more robust
- Empirical Analysis of Systemic Risk of Chinese Commercial Banks

MCM/ICM 2018

- Collecting and processing National Index Data and do data visualization.
- Building statistical models to measure and predict different countries' vulnerability.

Bowen Cup Project of ZUEL 2017

- Investigating marketing mode of the web-popular shops based on Analytic Hierarchy Process
- Analyzing the activation effect of traditional brand based on Nonparametric Inference

Industrial Experience

Machine Learning Engineer for Tencent Inc   **May-Sep 2021**

- Used Python to build and train a Machine Learning model (CNN) for face recognition
- Used statistical method to evaluate the model performance and improve the code efficiency
- Developed an end-to-end face recognition model deployed it on cloud platform to provide service
- Constructed an interactive website service with JavaScript to present the model outcomes

Data Analyst for Skyworth Inc   **Apr-Jul 2020**

- Used SQL Database to maintain and manage company's financial database
- Assisted in analyzing clients' financial situation and customized investment portfolio
- Performed data analysis reports and risk identification with models for specific financial product

Honors and Awards

2020	Outstanding Graduate of ZUEL
2020	Outstanding Bachelor thesis of ZUEL
2019	The First Prize, The 9th National Market Research Competition, China
2018	Technological Innovation Scholarship
2017	Second Class Scholarship, the People's Scholarship in China