Zhiwei Lin

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EDUCATION

M.S. IN APPLIED MATH & STATISTICS(AMS)

Stony Brook University, Stony Brook, NY | 3.83 GPA   Expected: May 2024

B.S. IN APPLIED MATH & STATISTICS(AMS) AND BIOLOGY

Stony Brook University, Stony Brook, NY | Honors: summa cum laude | 3.85 GPA   2021

COURSEWORK: Deep Learning, Data Analysis, Probability, Data Mining, Financial Mathematics, Quantitative Finance, Risk Management

CLUBS: Badminton Club, Math Club, Investment Club, Organization of Actuarial Students

ACTUARY EXAMS

Passed Exam P(Jul.2021), Exam FM(Aug.2021) Exam IFM(Mar.2022), Exam STAM(Jun.2022),EXAM SRM(May2023)

CERTIFICATION/SKILL

- Google Data Analytics   Provided by Coursera
- Master Microsoft Excel Macros and Excel VBA   Provided by Udemy
- Machine Learning A-Z™: AI, Python & R + ChatGPT Bonus   Provided by Udemy
- Experience in MATLAB, SQL and VBA programming
- Proficiency in Python and R programming

PROJECT

AnalysisLin(CRAN R package)

- Developed a personal exploratory data analysis (EDA) R package, **AnalysisLin**. It has been uploaded to the CRAN repository. [CRAN Website]
- A quick and effective data exploration toolkit. It provides essential features, including a **descriptive statistics table** for a quick overview of your dataset, **interactive distribution plots** to visualize variable patterns, **Principal Component Analysis** for dimensionality reduction and feature analysis, **missing value imputation methods**, and **correlation analysis**. [Package Vignette]

Personal Website

- Created and managed a **personal website** using GitHub and Jekyll.
- Included a collection of completed **data analysis and coding** projects. [Project Porfolios Link]

Residual Neural Network (ResNet) Project

- Developed a **ResNet** architecture deep learning model using **PyTorch**, achieving 94% accuracy on the CIFAR-10 dataset for image classification.
- Implemented a **self-attention** layer into ResNet, utilizing it to forecast stock price movement (loss, gain, or flat) in the next 5 days with an accuracy of 42%, which is higher than the stochastic indicator's accuracy of 33%. [Report]

EXPERIENCE

Part-Time Assistant |*Best QQ Nail Spa*   Jan. 2017 - Present

- Provide customer service and support at a parent-owned nail spa.
- Greet and assist customers, while supporting nail technicians.

Private Tutor   Dec. 2022 - Sept. 2023

- Provide personalized Math and Chinese tutoring to two high school students.
- Help them better prepare for their AP Calculus class and college-level math.
- Teach them Chinese, resulting in significant improvements in their speaking and writing skills.