Ben (Wei-Ting) Ho

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Technical Skills

Expertise: Statistical Analysis, Machine Learning (*logistic regression, tree-based model, neural network*), Data Preprocessing, Database Design, ETL (*Extract, Transform, and Load*), Predictive Modeling, Data Mining

Programming: SQL (*MySQL and NoSQL*), R (*ggplot2, shiny, and neuralnet*), Python (*Keras*, *NumPy, pandas, matplotlib, scikit-learn, beautifulsoup, and bokeh*), SAS

Analytical Tools: Tableau, Advanced Excel (*PivotTable, Lookups, Modeling*), Google Analytics

Professional Experience

Institute of Statistics at Academia Sinica, Taipei, Taiwan   Sept. 2017 – June 2019
Data Research Analyst

- Optimized an existing trading model with considering risk factors, which reduced unpredictable risk by 83% and increased profit by 4%
- Programmed with R estimating conditional tailed expectation for non-stationary time series process (GARCH family) to improve more than 50% efficiency on execution time
- Developed an automatic program to scrap the 5-minute to weekly stock quotes on Yahoo! Finance by using beautifulsoup and NumPy modules in Python
- Designed an interactive visualization with zooming, annotation, and drawing functions of the stock price
- Collaborated with cross-functional teams to develop strategy and structure to ensure on-time project completion

Cathay Life Insurance, Taipei, Taiwan   Sept. 2016 – Sept. 2017
Data Analyst

- Improved 23% accuracy of detecting abnormal claim cases by constructing a claim risk scoring model using R
- Optimized and redesigned the call service procedure to enhance customer satisfaction by reducing 30% of call service waiting time
- Planned the project with an agile method and tracked the process for each team member once a week, and successfully closed the project 3 months earlier than the tentative date
- Presented the effectiveness of marketing channels on each commodity by creating the dashboard in Tableau
- Spearheaded the implementation of segmented linear regression model on claim data, real estate data, and maturity data in life insurance

Project & Competition

Infosys Ideathon   Aug. 2020 – Sept. 2020

- Outperformed 2000+ applicants and selected as the team leader, conducting a project on blockchain application in medical service industry
- Provided knowledge on programming and mathematics in this 8-week competition with around 400 teams

System Analysis on the Mobile App   July 2020 – Aug. 2020

- Analyzed the system and database structures for an app while delivering the innovative concepts on functionality by constructing entity relationship diagram, class diagram, and pseudo algorithms.
- Designed a novel recommendation function for an app, combining TensorFlow API (word2vec module) with the current system to achieve the intelligent and customized recommendation

Credit Card Default Analysis   Sept. 2019 – Nov. 2019

- Programmed for data processing, modeling and visualization with KNN classifier, logistic regression, support vector classifier, and neural network methods
- Executed the project and successfully identified the default customers with over 50% recall rate

Education

The University of Texas at Dallas, US   Aug. 2019 – Present
Master of Science in Information Technology Management   GPA 3.92

National Central University, Taiwan   June 2015
Master of Science in Statistics

National Cheng Kung University, Taiwan   June 2013
Bachelor of Science in Mathematics