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Te-Kai(Kelvin) Chou

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EDUCATION

Georgia Institute of Technology

- Master of Science, Operations Research (Data Science Concentration)

Atlanta, GA

Aug. 2021 — Dec. 2022

National Chiao Tung University (NCTU)

- Completed 21 credits toward M.S. in Industrial Engineering and Management
- Bachelor of Science, Industrial Engineering and Management | GPA: 3.74/4.0

Hsinchu, Taiwan

Sep. 2020 — Jun. 2021

Sep. 2016 — Jun. 2020

WORK EXPERIENCE

BlueX Trade

Taipei, Taiwan

Data Scientist Intern

Jul. 2022 — Aug. 2022

- Developed ETL pipelines using DBT and orchestrated tasks using Airflow with the data team to automate the SQL data manipulation process, creating savings of **1** manual hour daily
- Analyzed trends and forecasted future bank account balance of customers with seasonal decomposition and SARIMA model, boosting creditworthiness assessment effectiveness by **10%**
- Deployed custom time series models to production with AWS SageMaker and ECR to assist the practical business decisions; reduced underwriting team response time to within **3 days**
- Improved customer conversion rate by **2%** by partnering with sales/marketing team for contact source distribution and marketing funnel analysis through SQL and Tableau visualization reports

NCTU Supply Chain Management Lab

Hsinchu, Taiwan

Undergraduate Research Assistant

Sep. 2018 — Jun. 2019

- Partnered and formulated problems with clients and team members in project planning, development, and execution
- Shortened defects detecting process time by **50%** and identified the types of defects on panels by building decision tree models and engineering image features with GLCM using Numpy and OpenCV

TECHNICAL EXPERIENCE

Next Meme Stocks Forecast

Jan. 2022 — May. 2022

- Built a web scraper in Python to retrieve **10+** million social media posts/comments of 2021 from Reddit and Twitter, and used NLP techniques for sentiment analysis and stock ticker symbol extraction
- Resolved imbalanced data model evaluation with macro F1 score metric and achieved **78%** on macro F1 score of logistic regression model by tuning classification threshold

News Recommender Engine

Aug. 2021 — Dec. 2021

- Aggregated and prepped news data using Pandas from **4** independent news sources into Python SQLite database and extracted news information through NLP techniques
- Developed a news recommender engine with an **85%** average matching rate by applying a combined content-based filtering algorithm with TF-IDF and Word2Vec

CAPTCHA Identification System

Mar. 2021 — Jun. 2021

- Increased web scraping process speed by **10 times** by developing an automatic digit/letter identification system with CNN and RNN models using Pytorch
- Enhanced the recognition accuracy by **15%** by implementing image noise reduction using NumPy and OpenCV

LEADERSHIP & ACTIVITIES

NCTU Cheerleading - Course Coordinator

Sep. 2017 — Jun. 2018

- Managed a club of **50+** members and scheduled progress weekly, saving average preparation time by **1 week**
- Boosted exposure and the number of commercial performances by **20%** by collaborating with other cheerleadings

SKILLS & CERTIFICATIONS

Certifications

AWS Certified Cloud Practitioner (CCP)

Programming & tools

Python, R, SQL; MS Office, Tableau; PySpark, Snowflake, AWS; DBT, Docker, Git, Linux

Data Science

Machine Learning, Deep Learning, Regression Analysis, Data Mining, Statistical Methods, Data Visualization, Database Management, Big Data, Natural Language Processing (NLP)