(470) 601-4801 Atlanta, GA bestkelvin08@gmail.com

Te-Kai(Kelvin) Chou

GitHub: TeKaiChou LinkedIn: TeKaiChou

EDUCATION

Georgia Institute of Technology

Atlanta, GA

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

Aug. 2021 — Dec. 2022

National Chiao Tung University (NCTU)

Hsinchu, Taiwan

• Completed 21 credits toward M.S. in Industrial Engineering and Management

Sep. 2020 — Jun. 2021

• Bachelor of Science, Industrial Engineering and Management | GPA: 3.74/4.0

Sep. 2016 — Jun. 2020

SKILLS & CERTIFICATIONS

Certifications

AWS Certified Cloud Practitioner (CCP)

Programming & tools
Data Science

Python, R, SQL; MS office, Tableau; PySpark, Snowflake, AWS; DBT, Docker, Git, Linux Machine Learning, Deep Learning, Regression Analysis, Data Mining, Statistical Methods, Data Visualization, Database Management, Big Data, Natural Language Processing (NLP)

WORK EXPERIENCE

BlueX Trade

Taipei, Taiwan

Data Scientist Intern

Jul. 2022 — Aug. 2022

- Developed ETL pipelines with DBT and orchestrated tasks with Airflow for automating SQL data manipulation process, creating savings of 1 manual hour daily
- Experimented with SARIMA and LSTM models for forecasting customers' future bank account balance, boosting creditworthiness assessment effectiveness by 10%
- Deployed custom time series models to production with AWS SageMaker and ECR to assist practical business decisions; reduced underwriting team response time to within **3 days**
- Improved conversion rate by 2% through marketing funnel analysis and tracked KPIs with Tableau dashboard

NCTU Supply Chain Management Lab

Hsinchu, Taiwan

Undergraduate Research Assistant

Sep. 2018 — Jun. 2019

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

TECHNICAL EXPERIENCE

Next Meme Stocks Forecast

Jan. 2022 — May. 2022

- Conducted web scraping to retrieve 10+ million social media posts/comments of 2021 from Reddit and Twitter
- Applied NLP for sentiment analysis and ticker symbols extraction and collected daily stock prices from CRSP database
- Resolved imbalanced data model evaluation with macro F1 score metric and achieved 78% on macro F1 score of logistic regression model by tuning 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 and communicating with other college cheerleading