Te-Kai(Kelvin) Chou

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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*

WORK EXPERIENCE

Taelor AI, Inc.   **Hayward, CA**
Data Scientist Intern   *Jul. 2023 — Present*
- Initiated multiple inventory reports automation and deployment; streamlined and automated BigQuery data cleaning/wrangling by Python and GCP Cloud Run, resulting in an **80%** decrease in data entry/manipulation time
- Built an inventory dashboard through Google Looker Studio for tracking business KPIs of inventory management to resolve the gap between inventory and customer persona, saving **17%** inventory cost
- Conducted resale analysis to understand the customers' buying preferences/behavior by Python (Pandas/Matplotlib) for pricing strategy and customer targeting, enhancing the resale revenue by **60%** in 3 months

BlueX Trade   **Taipei, Taiwan**
Data Scientist Intern   *Jul. 2022 — Aug. 2022*
- Forecasted future 30 days bank account balance of customers by seasonal decomposition and SARIMA predictive model, boosting creditworthiness assessment effectiveness by **10%**
- Deployed custom predictive models to production with AWS SageMaker and ECR to assist the creditworthiness assessment decisions; reduced underwriting team response time to within **3 days**
- Automated the SQL data manipulation of ETL pipeline using DBT and Airflow, saving **50%** manual hours daily

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

PROJECTS

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
- Applied sentiment analysis and extracted stock ticker symbol for predictive models by Natural Language Processing
- Implemented 3 algorithms, Random Forest, Neural Network, and logistic regression on imbalanced data, achieving the forecasting result with a **78%** F1 score with Python

News Recommender Engine   *Aug. 2021 — Dec. 2021*
- Aggregated data by Pandas and extracted text by NLP from **4** independent news sources into Python SQLite database
- Developed a news recommender engine with an **85%** average matching rate by applying a combined content-based filtering algorithm with TF-IDF and Word2Vec

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)
Technical Skills	Python, SQL, R, MS Office, Tableau, Google Looker Studio, AWS(Pyspark), Snowflake, Docker
Data Science	Machine Learning, Regression Analysis, Data Analytics, Statistics, Data Visualization, Natural Language Processing