Jay Chiehen Liao

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4+ years of experience in Data Science & Machine Learning • Proficient in Python & R programming • 10+ AI/ML competitions 6+ years of experience in Data Analysis & Statistics • Git, Linux, GPU, GCP • 10+ academic presentations in various domains • Skilled in communication, model explanation, and problem-solving • Interdisciplinary backgrounds

WORK FXPERIENCE

FAZZ FINANCIAL GROUP

DATA SCIENTIST (FULL-TIME)

Sep 2022 - present | Taipei, Taiwan (Hybrid)

- Focus on reconciliation and fraud & anomaly detection.
- Help increase anomaly detection performance by 25%.

NETWORKS & AI LAB, NCKU

RESEARCH AND TEACHING ASSISTANT (PART-TIME)

Aug 2020 - present | Tainan, Taiwan (Hybrid)

- Research topics: Machine learning with graphs, graph neural network (GNN), deep learning for tabular data.
- Managed Linux servers with GPUs.

HEALTH BEHAVIOR LAB, NCKU

RESEARCH AND TEACHING ASSISTANT (PART-TIME)

Jan 2017 - Jul 2020 | Tainan, Taiwan

- Data analysis with R & Python for 5+ projects.

EDUCATION

RENNES SCHOOL OF BUSINESS (RSB)

MASTER IN DATA & BUSINESS ANALYTICS

Sep 2021 - Apr 2022 | Rennes, France

NATIONAL CHENG KUNG UNIVERSITY (NCKU)

MASTER IN DATA SCIENCE (GPA=4.25/4.30)

Aug 2020 - Aug 2022 | Tainan, Taiwan

- The 1st Place, Academic Performance of The 1st Year
- Thesis: Learning Graph Structures from Tabular Data for Downstream Classification Tasks

Double Bachelor in Statistics and Psychology Sep 2015 - June 2020 | Tainan, Taiwan

SKILLS

TECHNICAL SKILLS

PROGRAMMING Python • R VERSION CONTROL Git
MACHINE LEARNING PyTorch • Scikit-Learn
GRAPH NEURAL NETWORK NetworkX • PyTorch-Geometric
DATA MANIPULATION dplyr • NumPy • Pandas
DATA VISUALIZATION ggplot2 • Matplotlib • Seaborn
DATA MANAGEMENT MySQL CLOUD COMPUTING GCP
DEVELOPMENT ENVIRONMENT VS Code • Jupyter • RStudio
MARKUP LANGUAGES Markdown • R Markdown • LETEX
OPERATION SYSTEMS Linux • macOS • Windows

LANGUAGES

English TOEIC 925/990 Mandarin/Chinese Native

KFY PRO JECTS & AWARDS

Predictive Modeling for 14-day Unplanned Hospital Readmission Risk by Using Machine Learning Algorithms BMC Medical Informatics and Decision Making (2021)

- Constructed ML models with promising performance to predict patients' readmission.
- Figured out influential features with model explanations.
 MY ROLES: Co-first author of the paper Model constructor
 SKILLS USED: Python Catboost Feature Engineering

A Mobile App (UPrEPU) to Monitor Adherence to Pre-Exposure Prophylaxis in Men Who Have Sex with Men: A Protocol for a User-Centered Approach Mobile App Design and Development

THE JMIR RESEARCH PROTOCOLS (2020)

My Jobs: Conveyed public health rules with pseudo-codes to communicate with development engineers • Data cleaning

SKILLS USED: Pseudo-code • Python • R

TOP 1 out of 401 teams

CHUNGHWA POST BIG DATA COMPETITION 2019

- Established ML models and proposed commercial solutions from the big data (>30GB) to reduce failed delivery rate (reduced about 65% eventually).
- Evaluated the proposed system in terms of ML performances, flexibility, and estimation of cost reduction (USD 376K and 44.8K hrs per year in Taipei City).

MY ROLES: Leader • Model constructor • Presenter SKILLS USED: Python • R • GBDT • Visual machines

TOP 3 out of 859 teams

RECOMMENDATIONS OF CREDIT CARD SPENDING CATEGORIES 2021 (E.SUN BANK)

SKILLS USED: Python • Transformer • GBDT

TOP 25%

Al CUP Fall 2020 - Medical Information
De-Identification (Dept. of Computer Science and Information Engineering, NCKU)

SKILLS USED: Python • NLP • Transformer

EXCELLENT AWARD CERTIFICATE OF STATISTIC ANALYSIS (THE CHINESE APPLIED STATISTICS ASSOCIATION)

ADVANCED AWARD (TOP 3%) Competition of Statistics (NCKU)