Jay Chiehen Liao

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3+ years of experience in **Data Science** & **Machine Learning** • Proficient in **Python** & **R** programming • 10+ AI/ML **competitions** 5+ 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

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 - Jul 2022 (expected) | Tainan, Taiwan

- The 1st Place, Academic Performance of The 1st Year (outgoing aboard in the 2nd year)
- Thesis: Learning Graph Structures from Tabular Data for Downstream Classification Tasks

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

WORK EXPERIENCE

FAZZ FINANCIAL GROUP

DATA SCIENTIST

Sep 2022 - present | Taipei, Taiwan (Hybrid)

NETWORKS & AILAB, NCKU

RESEARCH AND TEACHING ASSISTANT

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

Jan 2017 - Jul 2020 | Tainan, Taiwan

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

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

DEVELOPMENT ENVIRONMENT VS Code • Jupyter • RStudio

MARKUP LANGUAGES Markdown • R Markdown • ETEX

CLOUD COMPUTING Google Cloud Platform

OPERATION SYSTEMS Linux • macOS • Windows

LANGUAGES

English TOEIC 925/990 Mandarin/Chinese Native

KFY PROJECTS & 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 • R • 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%

AI 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)