Jay Chiehen Liao

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3+ years of experience in **Data Science** & **Machine Learning** • 5+ years of experience in **Data Analysis** & **Statistics**Proficient in **Python** & **R** • 10+ Al & big data competitions • 10+ academic presentations in various domains

FDUCATION

RENNES SCHOOL OF BUSINESS (RSB)

MASTER IN DATA & BUSINESS ANALYTICS

Sep 2021 - Apr 2022 | Rennes, France

 Graduation Project: Using Text Analysis to Explore the Role of Standard Essential Patents in Information and Communication Technologies and Artificial Intelligence

NATIONAL CHENG KUNG UNIVERSITY (NCKU)

MASTER IN DATA SCIENCE (GPA: 4.25/4.30)

Aug 2020 - Jul 2022 (expected) | Tainan, Taiwan

- The 1^{st} Place, Academic Performance of The 1^{st} Year
- Thesis: Learning Graph Structures from Structured and Unstructured Data for Downstream Tasks

DOUBLE BACHELOR IN STATISTICS AND PSYCHOLOGY Sep 2015 - June 2020 | Tainan, Taiwan

WORK EXPERIENCE

NETWORKS & AI LAB. 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

- Research topics: Social networks & sexually transmitted infections, health behavior interventions with technology, adolescent mental health.
- Data analysis with R & Python for 5+ projects.

SKILLS

TECHNICAL SKILLS

PROGRAMMING Python • R

MACHINE LEARNING PyTorch • Scikit-Learn • NumPy
GRAPH NEURAL NETWORK NetworkX • PyTorch-Geometric
DATA VISUALIZATION ggplot2 • Matplotlib • Seaborn
DATA MANAGEMENT MySQL VERSION CONTROL Git
CLOUD COMPUTING Google Cloud Platform
OPERATION SYSTEMS Linux • macOS • Windows

LANGUAGES

ENGLISH TOEIC 925/990 MANDARIN/CHINESE Native

KEY 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

- Figured out the research problem, established ML models, and proposed commercial solutions from the big data (>30GB).
- Provided detailed evaluation of models, system flexibility, and estimation of cost reduction.

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 2022 (E.SUN BANK)

SKILLS USED: Python • R • GBDT • Time Series

TOP 8 | Commercial Big Data Competition 2020 (Taishin Bank)

My ROLES: Data analyst • Presenter

Skills used: Python • R • Xgboost • GNNs

TOP 25% | AI CUP FALL 2020 - MEDICAL INFORMATION DE-IDENTIFICATION (CSIE, NCKU)

SKILLS USED: Python • NLP • Transformer

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

ADVANCED AWARD | Competition of Statistics (NCKU)

REFERRERS