Jiaxun Hao

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EDUCATION

University of Pennsylvania

Master of Computer and Information Technology
University of California, San Diego

Master of Quantitative Finance
Central University of Finance and Economics

Bachelor of Applied Economics

01/2022-12/2023
09/2019-12/2020
09/2019-12/2020

SKILLS

- Programming Languages: Python, SQL (MySQL, PostgreSQL), R, MATLAB
- Big Data & Cloud Technologies: Spark, MongoDB, AWS
- **Development Tools & Frameworks:** Git, Docker, Conda, Airflow, PyTorch, MLflow, Flask
- **Statistical Methods:** Hypothesis testing, A/B testing, Machine Learning Algorithms [link], Deep Neural Networks[link]

AI/ML PROJECTS

- **Trigger word detection:** Built a small Conv NN model from scratch using PyTorch to detect the trigger words in audio clips with accuracy as 92.38%
- **Music generation:** Built a RNN framework with LSTM layers from scratch to generate jazz music clips
- Name entity recognition: Retokenized CoNLL dataset (20000+ sentences from news articles) to match up to the BPE tokenizer of BERT, trained BERT to recognize name entities with overall f1 score as 0.88
- **Natural Language Inference:** Processed and tokenized Multi-genre NLI dataset (433000 manually-annotated sentence pairs from various genres), trained BERT to infer logic relations between sentence pairs with f1 score as 0.67

PROFESSIONAL EXPERIENCE

Zebit Data Analyst, Credit & Fraud Risk

01/2022-09/2023 San Diego, CA

- **Provided rule-based solutions that saved multi-million dollars in 2022 peak season,** by diving deep into user behaviors data (credit applications/account logins/payments) and identifying fraudulent patterns, worked cross-fuctionally with marketing, engineering, and operational teams
- Prevented account takeover risk by 16.37% through an automated anomaly detection framework that sent warning emails regarding massive suspicious activities in the registration/login/point-of-sale to the operational team and data science team
- Reduced fraud risk by 14.82% after deploying a machine learning model(XGBoost) in the application process to predict the fraud probability of new customers
- **Enhanced efficiency of the operational team by 37.19%** by automating their chargeback process with transaction-screening pipelines
- Monitored fraud metrics during the launch of an identity-verification tool in a user-centric manner, communicated unexpected metrics changes with software engineers to ensure a seamless customer experience and stable revenue growth
- **Developed and maintained Dashboards to monitor credit risk of existing portfolio** daily, provided analytical and actionable insights to senior leadership and cross-functional stakeholders