

Yufei (Annie) Ma

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EDUCATION

Boston University

Boston, MA

M. S. in Computer Information Systems

Sep. 2023 – May 2025

Expected relevant courses: Advanced Networking, Web Application Development, Software Design and Patterns, Mobile Application Development with Android System, Software Quality, Testing, and Security.

The Chinese University of Hong Kong, Shenzhen

Shenzhen, China

B. S. in Data Science

Sep. 2019 – Jun. 2023

Core Courses: Calculus, Linear Algebra, Probability, Statistics, Optimization, Discrete Math | Data Structure and Algorithm, Database, Programming Paradigm | Machine Learning, Advanced Machine Learning, Deep Learning, Speech and Natural Language Processing, Data Mining.

PROFESSIONAL EXPERIENCE

Bairong, Inc

Shenzhen, China

Machine Learning Engineer Intern

May – Aug. 2022

- Completed the project achieving the outcome of major clients' purchase with premiums. Here're my parts:
- Implemented an experimental Credit Scorecard Model with Logistic Regression in Python to show potential performance with customized data. We achieved high K-S score, and clients showed will to pay.
- Implemented a LightGBM algorithm with 3rd party data to enhance the models' performance. I also authored a script generating analytical reports to highlight the improvements.
- To better assess loaners' credibility, our team tried several ways of feature engineering. I generated 132 new features and 32 of them achieved remarkable Information Value.

Ping An Asset Management Co., Ltd.

Shanghai, China

Financial Analyst Intern

Aug. – Sep. 2021

- Analyzed fixed-rate, fluctuating service fees, annual income indexes on 5-year asset contracts using SQL.
- Participated in releasing company's Q2 financial report by providing data cleansing support with Excel.

PROJECTS

AskAbeAI

Sep 2023 – Present

- Built the frontend and APIs with Next.js 13, React 18, TypeScript, and Tailwind with help of Vercel AI SDK.
- Used Supabase's vector for handling pgvector's database for embeddings generated from OpenAI's API.
- Prompt-engineered GPT-3.5 and GPT-4 to generate reliable law answers from embeddings stored in Supabase.

VOC2012 Object Detection Task – Deep Learning Course Project

May 2023

- Implemented traditional object detection algorithms with OpenCV with manual feature selection.
- Trained & fine-tuned STOA models including Faster R-CNN, SSD, and YOLO to compare performances.
- Wrote Bash scripts to train and log results after individually setting up cloud GPU resources.

ChatGPT Detector – NLP Course Project

Mar. – May 2023

- Reproduced a RoBERTa ChatGPT/Human text classification model from a paper achieving >0.999 acc.
- Set up multiple LLM APIs and on-device models to produce more training text which achieved better generalizing performance over the baseline model.

COMPETITION

Kaggle: Feedback Prize - Predicting Effective Arguments

Jul. 2022

- Implemented data preprocessing with NLP techniques like tokenizing, normalizing, and padding.
- Iterated pre-trained models like BERT, DeBERTa, and RoBERTa and parameters and got a silver medal.

ADDITIONAL INFORMATION

Programming Languages: Python, C++, Java, SQL

Technologies: NumPy, Dask, TensorFlow, PyTorch, JAX; Git, GitHub; CMAKE, Jenkins, Azure, GCP

Language Skills: Native Chinese speaker. Fluent in English

Extracurricular: CUHKSZ Dance Club: Director of the ballet department, principal dancer and main choreographer.

Beijing Dancing Academy Ballet Grading Grade 8.