YIMING LI

+1 (617) 412-0879 | michaellymtt@gmail.com | Boston, MA

EDUCATION

Boston University 09/2025 - Now
M.S. in Data Science Boston, MA
Beijing University of Technology 08/2021- 07/2025
B.S. in Statistics GPA: 3.46/4.0 Beijing, China

SKILLS

Programming Languages: Python, R, SQL, C/ C++, Julia
ML/Data Science Libraries: PyTorch, Scikit-learn, LightGBM, SBERT, Faiss, Pandas, NumPy, Matplotlib, Statsmodels
Databases & Tools: MySQL, MongoDB, Linux, Git, Docker, MATLAB, SPSS

EXPERIENCE

Institute of Psychology of the Chinese Academy of Sciences, Beijing, China 06/2024 - 08/2025
Data Science Intern

- Engineered a full-stack, end-to-end machine learning system, starting by architecting an automated Python ETL process (Pandas, Multiprocessing) pipeline for data extraction (MySQL, MongoDB) and feature engineering, slashing processing time by 87.5%. Then using the features to develop, train, and deploy a composite neural network model (LightGBM, PyTorch) for 3-class emotion recognition, which improved classification accuracy by 5%.
- Independently developed an interactive psychology experiment software in Python (Pygame) that automated the entire research workflow which significantly enhancing research scalability by enabling parallel experimentation.
- Collaborated in a cross-functional team to develop a real-time stress intervention app. Key contributions included co-designing and validating a stress detection algorithm with researchers, and partnering with developers to conduct end-to-end debugging, ensuring the final application was precisely aligned with the research design.

Jiahua Information Technology, Beijing, China 01/2024 - 03/2024
Software Develop Intern, Product R & D Department

- Developed data pipeline and NLP model for a conversational system project. Applying prompt engineering to generate synthetic banking dialogues from an LLM. Then train and validate lightweight NLP models that powered the system's core functionalities, including customer intent recognition and dialogue summarization.

Sunshine Financial Technology, Beijing, China 07/2023 - 08/2023
Data Analyst Intern, Planning Department, Planning Team of the Special Asset Business Department

- Handled multiple business analysis and data reporting tasks. Key responsibilities included authoring in-depth business analysis reports from public financial reports and internal business operations, maintaining departmental daily and weekly reporting workflows, and compiling rulebooks for specific asset auctions.

PROJECTS

Computational Modeling of Dynamic Cognitive Processes 10/2021 - 06/2025
Research Assistant *Supervisor: Xinyi Deng*

- Applied computational neuroscience methods, using point process models to analyze neural spiking activity from the orbitofrontal cortex to quantify and decode neural signals during economic decision-making.
- Developed a novel state-space model for the interleaved learning paradigm to address the challenge of analyzing complex learning behaviors. This model simultaneously integrates continuous data and discrete data, using Bayesian methods to dynamically track latent cognitive states, providing a new quantitative analysis framework for the field.

Financial Assets Prediction Based on ARIMA, Random Forest and GRU 09/2023 - 11/2024
Independent Research *Supervisor: P. Mark Vogelsberger*

- Conducted an independent comparative study on financial asset forecasting, systematically evaluating three distinct model types: ARIMA for capturing linear trends, Random Forest for its robustness to data noise and interpretability, and Gated Recurrent Unit (GRU) for its superior accuracy in modeling complex time-series dependencies.