

BEILAN LIN

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EDUCATION

B.S. Artificial Intelligence

Beijing Normal-Hong Kong Baptist University, China

June 2025

PROJECT EXPERIENCE

Hybrid Chaotic Neural Oscillatory Network for Financial Prediction and Trading

February 2024 - Present

Supervisor: Dr. Raymond Shu Tak Lee

This research presents the Hybrid Chaotic Neural Oscillatory Network, a predictive framework combining historical financial data, Quantum Price Levels (QPLs) from Quantum Field Theory (QFT). Using LSTM, GRU, and attention mechanisms, our network captures chaotic and quantum patterns in forex data. The framework and QPLs are applied to a dual-period trailing stop-loss strategy, improving return stability and reducing risks in trading.

Comment Generator based on Sentiment Analysis

October 2023 - December 2023

This project proposes a workflow that generates comments based on unpublished article content to help publishers or information platforms evaluate the potential public opinion trends after an article's release. The project combines keyword extraction, knowledge graph techniques, and transformer models, using the New York Times articles and comment database for comment generation using LSTM together with GPT.

Project Manager, Guqin Intelligent Recognition Project

June 2024 - Present

Guangdong Provincial Key Laboratory of Interdisciplinary Research and Application for Data Science, China

Supervisor: Dr. Shuhong Chen

Research Focus: Segmentation, recognition, database construction, input method development of Guqin (a traditional Chinese musical instrument) Jianzi notation, audio-to-numbered-notation conversion, and Guqin Jianzi notation online editor.

INTERNSHIP

Quantitative Strategy Engineer

Guangzhou Letme Quantitative Information Technology Co., Ltd.

July 2024 - August 2024

Tracked economic news daily to analyze market reactions, developed Python algorithms for consolidation patterns and price gap analysis in Dow Jones 30 futures, refined the team's analytical framework, optimized MT5 strategies, and researched top market strategies.

Family Office Analyst

Shenzhen Golden Axe Network Technology Co., Ltd.

June 2023 - August 2023

Participated in the research of insurance and stock products, including organizing insurance plans, calculating simple and compound interest, and determining premium discounts and benefits. Learned to analyze market trends and individual stock values through technical and fundamental analysis.

SKILLS

Tech: Python, Tensorflow, Pytorch, Git, Shell, R, MATLAB, Java, SQL, MQL5, Windows

Academic IELTS: Overall 7.0 - Test Date: 08 May 2024

Driver's license: C1