

YINGZHE DONG

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EDUCATION

Northeastern University (NEU), Shenyang City, Liaoning, CHN Sept. 2017- Jul. 2021

- Major: Finance and Banking (Fintech) Minor: Software Engineering
- Expected Degree: Bachelor of Economics
- GPA: 3.75/5.00 (87.5/100)

McGill University, Canada

Aug. 2019- Sept. 2019

Business Data Analytics Training Program

- Courses taken: Data Analysis (A), Agile Project Management (B+)

PUBLICATION

Yingzhe Dong, Da Yan, Abdullateef Ibrahim Almudaifer, Sibao Yan, Zhe Jiang & Yang Zhou (2020), **BELT: A Pipeline for Stock Price Prediction Using News**, *IEEE Big Data 2020*

RESEARCH & COMPETITION EXPERIENCE

BELT: A Pipeline for Stock Price Prediction Using News

Aug. 2019- Oct. 2020

Advisor: Professor Da Yan, University of Alabama – Birmingham, the U.S.

- Captured recent news reports from major media outlets and reputable investors
- Improved the Bert algorithm to enhance the accuracy of relevance analysis and sentiment analysis
- Connected affective attribute to the LSTM model and achieved the performance that exceeded the SOTA algorithm Stocknet
- Wrote the paper titled **BELT: A Pipeline for Stock Price Prediction Using News** as the first author, and the paper was included in *IEEE Big Data 2020* as the regular paper (the acceptance rate is about 15.5%, 83/535)

Music Arrangement Using NLP

May 2019-Dec.2019

Advisor: Professor Lixin Tang & Dr. Chege Legen, NEU

Key Laboratory of Data Analytics and Optimization for Smart Industry, Ministry of Education, China

- Conducted the music arrangement according to the actual conditions in the project
- Built a music database, read audio files using pygame in Python, decomposed them with wave, and employed librosa to extract beats, and visualized audios

An Empirical Study on Social Networks in the Sharing Economy (National Project) Feb. 2019-Dec. 2019

Advisor: Professor Yongli Li, NEU

- Studied on how the online social network impacts social recommendation based on the authentic data from Airbnb
- Took charge of data visualization, model building, and literature retrieval: crawled the data of 4300 Airbnb users, constructed the logistic model with proper variables (X & Y), introduced indegree to categorize users into three categories, and built regression model
- Awarded the outstanding national research project

‘Historical Similarities’ and Predictions of Stock Market Trends

Dec. 2018-Feb. 2019

Advisor: Professor Xu Tian, NEU

- Built models using the daily data of Shanghai Composite Index (SHCI) since Jan. 2005, verified the historical similarities between the current market and the 2009 market, and predicted the tendency of SHCI weekly and monthly
- Collected data, conducted the model testing and grey prediction, etc.
- Won the First Prize (5%) in the Gauss Cup Mathematical Modeling Competition for National College Students

INTERNSHIP

Kuaishou

Beijing

Data Analyst, Department of Government Affairs

Nov. 2020-Feb. 2021

- Set up the department data center from 0 to 1, undertook the initial work of data development, met the data requirements of the department: utilizing SQL to retrieve data from Hive and completing over 1,500 SQL queries, wrote the SQL template, and created the corresponding visual Kanban to support

- the unified and efficient data queries and statistics, and standardized data caliber
- Provided the strategies support for recommending high-quality works to the operation side, and developed appropriate public release strategy based on the characteristics of the published works of different secondary vertical classes
- Calculated resource allocation for different queues and periods around the internal resource pool of the department, optimized the code and configured a fitted engine
- Conducted the quantitative analysis (Gini-Simpson index and Shannon-Wiener index) for the ecological diversity of the primary vertical classes to prevent the recommendation system from being good at working out an optimal local solution that resulted in the ‘Matthew effect’ of distribution

China Securities Co., Ltd

Beijing

Securities Sales Department

Jul. 2019-Aug. 2019

- Analyzed fund indicators, conducted the fundamental and technical analysis of stocks
- Drew the pressure line and support line to analyze the shapes such as gold fork, dead fork, or island, and predicted the future trend of the stock
- Learned the distribution and types of fund composition by observing the fund manager’s performances in recent years

AXA Group (Hong Kong)

Hong Kong

Audit Intern

Jan. 2019- Feb. 2019

- Acquired insurance knowledge, followed up the market dynamics of various insurance products, and conducted market research and data analysis to support the front-line salesperson
- Conducted the financial audit of enterprises that AXA had invested in ensuring the ROI (return on investment)
- Participated in the meetings of investment and due diligence, collected and sorted out the industry information and financial information of the target company

LEADERSHIP

Training Camp for Overseas Economic Management Scholars, NEU

Sept. 2017- Oct. 2018

- Discussed the hot economic issues with international scholars such as Kenneth Lloyd Schoolland
- Simulated the economic forum and expressed views on the trade war
- Awarded the excellent trainee

Team Leader, Basketball Team, NEU

Mar. 2018-Nov. 2020

- Led the team to participate in competitions
- Awarded the First Prize in the Basketball Competition hosted by the School of Business Administration, and the Second Prize in Jianlong Steel Basketball Match

Model United Nations Conference, Shenyang City, Liaoning Province, China

Dec. 2017

- Discussed the issue of Brexit (leaving the European Union)

Model United Nations Conference- United Nations Environment Programme (UNEP), Jilin Huaqiao University of Foreign Languages

Dec. 2017

- Discussed the detailed rules and regulations and development of UNEP

OTHER AWARDS

First-class Scholarship, School of Business Administration, NEU

Dec.2020

Excellent Student Leader, School of Business Administration, NEU

Dec.2018

Third-class Scholarship, School of Business Administration, NEU

Sept.2017 & Sept. 2018

SKILLS

Technical: Proficient in Python and SQL; Basic command of Html, CSS, JS & C

Languages: Chinese (native), English (fluent)