ZIJIE LUO

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Hitachi
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Graduates

PROFESSIONAL EXPERIENCE

Daiwa Asset Management Co. Ltd. Mar 2022 - Present
Research Intern

- Keywords : Bert, Word2Vec, fasttext, GloVe, MySQL, keywords extraction, text classification, web-crawler, Japanese data preprocessing, etc.;
- Project Description: Responsible for the development of the fund search system, using several words to find out the most similarity securities reports
- Implement the model, optimize the algorithm and improve the accuracy;
- Use web-crawler to obtain securities reports, Japanese training text, funds and stock codes, etc. And use these text to train language models
- Proposing solutions to the techniques encountered, resulting in improved recall (44% to 57%);
- Enter data into MySQL database;
- Summarize the results, report the results and write a paper, and will participate in the Japanese academic publication on August 19, 2022. The paper "Support for Composition of Thematic Equity Funds Using Text Mining"

PROJECT EXPERIENCE

The relationship between Yahoo FX Tweets, advertising costs, revenue Apr 2021 - Oct 2021
Research Intern Hitachi

- Keywords: web-crawler, Bert, sentiment analysis, data analysis
- Project Description: The project is a joint research with Yahoo Japan FX(YJFX) and the content is the relationship between YJFX-related Twitter, advertising fees, and revenue.;
- The purpose is to study what kind of subject matter, what kind of content can get more clicks, and get more account opening;
- Use Twitter's API, but the number of daily access is limited, and can not get all the Tweets, so use selenium for web automated crawling. Use data mining technology to analyze the text;
- To analysis the Tweet's sentiment, used the Bert model of the Izumi Lab, University of Tokyo. Fine tuning the model;
- Measure the relationship between them. The number of account openings will increase when account opening rebates. If there are some good news for FX, the number of account openings will also increase(such as a big news by the Federal Reserve, and the will-known people who related to FX cannot greatly affect the number of FX account openings.

Japanese Amazon Customer Reviews Text Classification Mar 2021 - Jul 2021
Independent development

Keywords: text extraction, feature selection, feature extraction, Japanese data preprocessing, neural network, deep learning, LSTM, etc.
Project Description: Responsible for the development of a text classification system, using the Japanese Amazon customer review data and star ratings, and using various natural language models for processing;
Tokenize and padding the sentence, and use the Word2Vec pre-training word vector to build a dictionary;
Obtain data from AWS, remove all the data with Japanese text ratio below 0.7 in the sentence, and extract structural features (N-gram, TF-IDF features, statistical features);
Finally use LR, neural network, RNN, LSTM, get final accuracy (0.8193)

EDUCATION

Ibaraki University Apr 2021 - Mar 2023
Mechanical System Engineering Master Hitachi

- GPA:3.62/4.5
- Related courses: Data Analysis, Natural Language Processing, Artificial Intelligence, Machine Learning, Reinforcement Learning, Academic Presentation, Artificial Intelligence, Data Structures, Computer Fundamentals.

Ibaraki University Apr 2017 - Mar 2021
Intelligent Systems Engineering Bachelor

- Related courses: Data Analysis, Advanced Mathematics, Artificial Intelligence, Computer Principles, Data Structures, Algorithm;
- Full tuition waiver

SKILLS, CERTIFICATIONS & OTHERS

- **Skills:** NLP, Machine Learning, Natural Language Processing, Deep Learning, AI, Python, MySQL, web-crawler, selenium, CSS, html, TensorFlow, Pytorch, Kears, sklearn，PowerPoint,Excel,Word,data mining, data analysis