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EDUCATION

The University of Hong Kong HK, CHINA

Master of Science(MSc) - Computer Science Sep 2022 - Dec 2023

George Mason University VA, USA

Bachelor of Science - Computer Science; GPA: 3.71/4.0

Aug 2018 - Aug 2022 Honors/Awards: Dean's List (2018-2020)

Courses: Natural Language Processing, Visual Computing, Data Structure, Database Concepts

Henan University Henan, CHINA

Bachelor of Engineering - Networking Engineering; GPA: 88/100; Rank: 4/292 Sep 2017 - Jun 2022

EXPERIENCE

Baidu Research Cognitive Computing Lab

Beijing, CHINA Intern (Full-time) Dec 2021 - June 2022

 Worked on dependency parsing, using Open Information Annotation (OIA) method to parse sentences. The OIA method will convert sentence to a DAG.

- o Improved the performance of the OIA method for Chinese sentences to be on par with English OIA through better integrated node type and edge type specific to Chinese OIA.
- o During the internship, my essay reading skills and coding skills improved substantially, also have research experience in OIE and logical reasoning.
- o Worked with Dr.Xin Wang and Dr.Mingming Sun.

Competitions

Kaggle — Feedback Prize - Predicting Effective Arguments Competition

Jun 2022 - Aug 2022

Team Leader — Sliver Medal (Top 2%)

- o Composed the baseline code and designed various data preprocessing strategies and model structures.
- Using token classification instead of sequence classification in this competition. This new solution boosts our rank and saves a lot of time on training and inference. Acquire the ability to use the Transformers training API.

Kaggle — U.S. Patent Phrase to Phrase Matching

Mar 2022 - Jun 2022

Solo — Bronze Medal (Top 9%)

- Composed the entire code pipeline with various combinations of pre-trained language models and structures.
- Mastered multiple methods of fine-tuning such as mean pooling, multi-dropout, and layer normalization.

CCF Collegiate Computer System & Programming Contest

Sep 2021 - Nov 2021

Team Member — Top 5%

- Utilized data science and machine learning pipeline to predict consumer default vs non-default.
- Master the using of lightGBM and XGBoost models, and the model stacking method. Mastered real-world data science challenge with machine learning pipeline and team collaboration.

Projects

Rumor Prediction Model for Microblog Epidemic

Mar 2021 - May 2021

- o A Covid-19 rumor prediction model was built based on the pre-trained model BERT, which completes the deep learning model complete process.
- o In this project, I went through the whole process of idea generation, data search, reference papers, code practice, model building and article writing, and gained a very deep understanding of the NLP project process.

Emotional analysis case

July 2021 - Sep 2021

- Sentiment analysis is performed on the movie review text dataset, and the bag-of-words model, N-gram model, loss function, and gradient descent function are implemented manually.
- Through this project, I have gained a deeper understanding of the principles of deep learning, the real usage of gradient descent, and a deeper understanding of statistical-based language models.

Personal Summary

Mandarin, English • Languages:

• Frameworks: PyTorch, Scikit, NLTK, SpaC