Dekun Chen

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B402, Muse College, The Chinese University of Hong Kong, Shenzhen, Guangdong, China

EDUCATION BACKGROUND

The Chinese University of Hong Kong, Shenzhen, China   **09/2020-06/2024**

- Bachelor of Engineering in Computer Science and Engineering
- CGPA: 3.547/4.000;   MGPA: 3.862/4.000

PUBLICATIONS

[1] Chen, D. (June, 2023). Word-Level Interpretation of ChatGPT Detector Based on Classification Contribution. In 2023 *2nd International Conference on Image Processing and Intelligent Information Systems (IPIIS)*, p. 195.

[2] Chen, D. (July, 2023). Research on Word Difficulty Classification Based on Machine Learning. In 2023 *IEEE 5th International Conference on Artificial Intelligence and Computer Applications (ICAICA)*, p. 22288. IEEE.

[3] Chen, D., Ni, S., & Deng, D. (August, 2023). Research on the Development of Wordle based on LSTM and XGBoost. In 2023 *2nd International Conference on Data Analytics, Computing and Artificial Intelligence (ICDACAI)*, p. 2171. IEEE.

RESEARCH EXPERIENCES

Word-Level Interpretation of ChatGPT Detector Based on Classification Contribution

01/2023-05/2023

The Chinese University of Hong Kong, Shenzhen, China   *Supervisor: Dr Zhizheng Wu*

- Proposed a method to interpret the word contribution of ChatGPT detector prediction, considering the information from both the classification process and the transformers.
- Intuitively displayed the contribution of each word to the prediction result with high calculation efficiency
- Available details at salixc/WCC-DekunChen (github.com)

Knowledge Graph About Tourism   **03/2023-Present**

The Chinese University of Hong Kong, Shenzhen, China   *Supervisor: Dr. Guanying Chen*

- Responsible for implementing the Bert + BiLSTM + CRF model for NER task and optimising its performance by making a list of filtered entities.
- Conducted entity matching task for multi-source data of attractions, hotels, and other tourism elements, which utilised Chinese words embedding, address segmentation, and Xgboost classification techniques. More details could be found at salixc/Entity_Matching_For_Tourism_Dataset (github.com)

EXTRACURRICULAR ACTIVITIES

2023 Mathematical Contest in Modeling (Question C)   **02/2023**

Team Leader

- Utilized LSTM, XGBoost, SVM, and other models to solve time series and text classification tasks.
- Mainly responsible for the implementation and evaluation of various models.
- Won the Outstanding Winner Award (Top 0.5%).

Career Planning and Development Office, CUHKSZ | **10/2022 - Present**

Student Assistant @ Data Department

Shenzhen, China

- Assisted in collecting and sorting out various data on career and internship.
- Responsible for routine work including receiving students, answering phone calls, and releasing information.

New Frontiers of Science Online Program | **08/2022 - 09/2022**

Participant

Remotely

- Actively participated in online interdisciplinary research program by Oxford Prospects and Global Development Institute
- Involved in group presentations, academic tests, and essay writing towards four fields.
- Received the final grade of A level.

PROFESSIONAL EXPERIENCES

Juwan Technology Co., LTD, Shenzhen, China | **06/2022 – 09/2022**

Intern @ Product Development Department

- Assisted in promoting the development of the company's technical products.
- Utilized Selenium frame to collect auction data.
- Authored several feasibility study reports and technical tenders.

Ping An Securities Co., LTD, Shenzhen, China | **07/2021 – 08/2021**

Intern @ Information Technology Center Data Intelligence Group

- Assisted the team project by basic models like Random Forest.
- Responsible for routine tasks involving library file packaging.

HONORS & AWARDS

- Outstanding Winner in 2023 Mathematical Contest in Modelling — 05/2023
- Bowen Scholarship in CUHKSZ (several consecutive years) — 2020-2023
- 2021-2022 Dean's List of School of Data Science, CUHKSZ — 09/2022
- 2022-2023 Dean's List of School of Data Science, CUHKSZ — 09/2023

LANGUAGE & ACADEMIC ABILITY

- Languages: IELTS 7.0
- Coursework: Data Structure, Optimization, Database System, Machine Learning, Speech and Language Processing
- Programming Skills: Proficient in Python. Master C++/C/Java. Master fundamental ML algorithms and NLP models.
- Areas of Interest: NLP (Including Information Extraction; Security; Sentiment Analysis; Interactive Systems; etc.)