Zhuowei Chen

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EDUCATION

University of California, Berkeley   *Berkeley, CA, US*
Undergraduate Visiting Student   *Aug, 2023 - Jan, 2024*
- **Curriculum:** Natural Language Processing, Introduction to Artificial Intelligence, Computer Security

Guangdong University of Foreign Studies   *Guangzhou, China*
Bachelor in Software Engineering   *Expected July, 2025*
- **Curriculum:** Algorithm Design, Operating System, Data Structure, Advanced Mathematics, Discrete Mathematics, Computer Composition, etc
- **Score:** 89.33/100.00

PUBLICATIONS

Enhancing Hindi Feature Representation Through Fusion of Dual-Script Word Embeddings (Under review)
  Lianxi Wang, Yujia Tian, **Zhuowei Chen**✉
  Proceedings of the 31th International Conference on Computational Linguistics, 2024

A Distantly-Supervised Relation Extraction Method Based on Selective Gate and Noise Correction
  Zhuowei Chen, Yujia Tian, Lianxi Wang✉, Shengyi Jiang
  China National Conference on Chinese Computational Linguistics, 2023

EXPERIENCE

Lab of Data Mining, GDUFS   *Guangzhou, China*
Research Assistant   *Sept. 2021 - Present*
- Leadership in proposing an effective dual-script representation for Hindi.
- Leadership in designing a novel distantly-supervised relation extraction method.
- Worked as a TA for Language Data Processing Technique course.
- Contributed to finding noise-dealing method for classification tasks.
- Contributed to proposing a low-resource language data augmentation method.
- Contributed to developing text data crawlers and data visualization software.
- **Technical Skills:** Python (Pandas, PyTorch, NumPy, Scrapy, Scikit-learn. etc.), C, Java, HTML/CSS, JavaScript, SQL.

PROJECTS

Feature fusion methods for different scripts of Hindi in language models   *Guangzhou, China*
GDUFS   *May. 2023 - Oct. 2023*
- **Improved Hindi language model's performance by fuse features from two different Hindi scripts.**
- Completed data statistics and cleaning by Pandas, Numpy and Scikit-learn.
- Implemented neural networks by PyTorch to perform experiments.
- Examining the performances and impacts of different fusion methods do to the model in downstream tasks.
- Drafting and complete the thesis main section.

NLP-based assessment of international relations   *Guangzhou, China*
GDUFS   *March. 2023 - May. 2023*
- **Analysed international relations by the amount of different type and emotion of news from main medias.**
- Contributed to designing a noise-dealing method for NLP classification task.
- Completed effectiveness validation experiments for novel noise-dealing methods.
- Trained a well performed classification model for the assessment research based on the SOTA method.

Research on relation extraction method based on distant supervision   *Guangzhou, China*
GDUFS   *Sept. 2022 - Feb. 2023*
- **Improved distantly supervised relation extraction performance by designing an effective and robust noise-dealing method.**
- Contributed to propose a novel method for RE that incorporates gate mechanism and an end-to-end noise correction method.
- Implemented the model and completed the experiments of the proposed model on three datasets with Python.
- Completed the paper writing and submission of the proposed model.

Data visualization platform for Chinese urban   *Guangzhou, China*
GDUFS   *Feb, 2022 - Sept, 2022*
- **Analyzed and visualized various indicators of cities to establish a profile for each city, providing multiple labels for each city.**
- Developed crawlers and framework to collect data on Chinese cities from 2010 to 2023 with Scrapy and MySQL.
- Developed visualization software as a full-stack engineer using Django, HTML, CSS, and JavaScript.

LLMs for Hindi *Guangzhou, China*
GDUFS *Oct, 2021 - Dec, 2021*
- Developed crawlers and framework for crawlers with Scrapy, and prepared the original corpus data of Hindi language models.

ACHIEVEMENTS

2023	**First-class Scholarship**, Comprehensive Scholarship, GDUFS	*Guangzhou, China*
2023	**Bronze Medal**, Cantonese Challenge Cup Academic Works Competition	*Guangzhou, China*
2023	**Gold Medal**, GDUFS Challenge Cup Academic Works Competition	*Guangzhou, China*
2022	**Silver Medal**, National College Computer Design Competition	*Hangzhou, China*
2022	**Gold Medal**, Cantonese College Computer Design Competition	*Guangzhou, China*
2022	**Merit Award**, National College Student Mathematical Modelling Competition	*Guangzhou, China*
2022	**Software Copyright**, Data Visualization Platform for Chinese Cities	*Guangzhou, China*
2022	**Second-class Scholarship**, Comprehensive Scholarship, GDUFS	*Guangzhou, China*
2021	**Merit Award**, Greater Bay Area Financial Mathematical Modelling Competition	*Guangzhou, China*