

### Education

#### Central University of Nationalities

Sept. 2021 – Jun. 2025(Expected)

Bachelor of Information and Computing Science

Average score: 85.9/100

Beijing, China

Main Course: Elements of Information Theory (96), Mathematical Modeling (90), Data Structure (92), Mathematical Analysis (94), Probability and Mathematical Statistics (86), Python Language (88)

### **Publications**

### Human-Computer Interactions with Natural Language Processing and Future Trends of HCI

[J]. China Science and Technology Information, 2023

first author

# Study of Named Entity Recognition Based on Flat-Lattice Transformer and Fast Gradient Method

(to be submitted)

first author

Improving entity recognition accuracy in the Non-Flat-Lattice Transformer model by introducing word-level position tagging as input to develop a BCEloss classification model for predicting the accuracy of benchmark datasets

## Research Experience

## Enhancing RoBERTa with Global Pointer and Adversarial Training for Robust Text Classification

Sept. 2023 – present

Beijing, China

- Integrate global pointer and adversarial training strategies into the RoBERTa model to enhance its performance and resilience in complex text classification tasks
- Evaluate the performance differences between the enhanced and original models using standard metrics, focusing on the models' resistance to adversarial disturbances
- Analyze the experimental results in depth, explore how the technologies improve text classification

## Study of Accuracy of FLAT Model's Word-level Position Tagging Based on BCEloss Classification

 $May. \ 2023 - Dec. \ 2023$ 

Beijing, China

- Devising an experimental strategy to develop a BCEloss classification model for predicting the accuracy of word-level position tagging
- Conducting experiments on NLP benchmark datasets to compare the optimized NFLAT model with existing models in terms of performance metrics

# Studying Autism Behavior in the Media through Hierarchical Topic Modeling

Nov. 2022 - Jul.2023

Beijing, China

- Collect and filter media articles related to autism, including news reports, blogs, and forum posts
- Analyze the high-frequency words and representative documents under each theme to understand the descriptions and frameworks of autism behavior in the media
- Adopting actor-critic algorithms in deep learning for results

## **Scientific Competitions**

# Second Prize, National Mathematical Contest in Modeling

January 2023

- Group leader, responsible for code implementation and modeling ideas
- Complete the paper Empirical Verification of Modernization Index System on Long Short-Term Memory

#### Third Prize, The Chinese Mathematics Competition, 2022

August 2022

- Group leader, responsible for problem-solving ideas and MATLAB modeling
- Complete the report Study on the Coupling Coordination of Digital Economy and Ecological Civilization Modernization

# Work Experience

#### Tianjin Dongrui Software Corporation

May 2023 – August 2023

Algorithm Intern

Tianjin, China

- Conducted data preprocessing tasks like data cleaning and feature engineering, to prepare for algorithm development
- Implemented various machine learning algorithms on benchmark datasets for algorithm optimization
- Provided feedback to improve code quality, readability, and maintainability of algorithm implementations

## Honors & Awards

#### Member of External Affairs, Student Union

Spring 2021 - 2023

Central University of Nationalities

- \* Professional Second Class Scholarship, Central University of Nationalities, 2023
- \* Professional First Class Scholarship, Central University of Nationalities, 2022
- \* Second Prize of the National College Student Mathematics Competition, Mathematics Major, Beijing, 2022

### Skills

- \* Language:English(fluent,TOEFL 100), Chinese(native)
- \* Programming:Python, R, LaTex, Matlab, C/C++