Honglin Wang

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Education

Beijing Institute of Technology   *Sept 2020 – June 2024*
Bachelor of Science in Artificial Intelligence

- GPA: 3.3/4.0 (Ranking 40%)
- **Major Courses:** Machine Learning (94/100), Natural Language Processing Project Practice (95/100), Pattern Recognition (89/100) ,Optimization Methods (95/100), Computer Vision, Deep Learning

Projects

Session-Based Recommendation Algorithm Based on Intent Disentanglement *(Undergraduate Thesis)*   *Feb 2024 - June 2024*

- Proposed an innovative **intention disentanglement algorithm** using **hypergraph structures** to encode high-order transitions in user behaviors.
- **Captured user intents** through intent prototype learning and **optimized recommendation performance** through auxiliary learning tasks.
- **Outperformed** the state-of-the-art methods through extensive experiments on benchmark datasets.
- Tech Used: Python, PyTorch, Recommendation system modeling

Acrostic Poetry Generation System Based on BERT   *Oct 2023*

- Preprocessed the "Tang Poetry" dataset, trained the model, and delivered results customized to users' input.
- Tech Used: Python, MindSpore, BERT

Short Text Classification Using Multiple Encoders   *Jan 2023*

- Implemented **short text classification models** using Bi-LSTM, Transformer, and pre-trained models.
- Compared model performance and explored the impact of different pooling strategies.
- Tech Used: Bi-LSTM, Transformer, BERT

Simulated Annealing Algorithm for Permutation Flow Shop Scheduling   *May 2022*

- Designed a **Simulated Annealing model** to minimize total completion time in distributed manufacturing.
- Avoided local optima using **probabilistic acceptance mechanisms** and visualized performance.
- Tech Used: Python (data processing, algorithm implementation, visualization)

Honors and Awards

- **Outstanding Member of the Communist Youth League**, Beijing Institute of Technology, 2023-2024
- **Undergraduate Scholarship**, Beijing Institute of Technology, 2023
- **First Prize**, Beijing Division, 1st "SFLEP · VocabGo Cup" National English Vocabulary Contest

Extracurricular Work

News Agency, Publicity Department of the CPC Committee, BIT   *Sept 2021 – June 2023*
Head

- Reviewed and proofread **English technology news**. Recorded and audited **English news audio** content.
- Contributed to maintaining the **official English website** of Beijing Institute of Technology.

Professional Skills

Languages: CET-4 (**622**), CET-6 (**589**). Proficient in **reading, writing and presentation** skills.

Programming Languages: C, C++, Python. Solid foundation in algorithms and data structures.

Deep Learning: PyTorch, MindSpore. Expertise in **model design**, **training** and **tuning**.