

Hu Yedi

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Education

University of Edinburgh

Sept 2022 – Aug 2023

MSc in Artificial Intelligence

- Awarded with Merit
- Relevant Courses: Natural Language Processing, Speech Recognition, Search Engine Development, Perception and Action
- Dissertation: *Exploring Transfer Learning for Detecting Genuine Replies in Online Discussions*

University of Nottingham

Sept 2018 – Jun 2022

BSc in Computer Science and Artificial Intelligence

- Graduated with First Class Honours
- Relevant Topics: Image Recognition, Machine Learning, Deep Learning
- Dissertation: *Multimodal Suicide Detection: A Novel Approach Integrating Deep Learning and Ensemble Learning*

NLP Experience

Dissertation: Exploring Transfer Learning for Detecting Genuine Replies in Online Discussions

Jun 2023 – Aug 2023

- Designed a reply authenticity classifier using RoBERTa and DistilRoBERTa on Reddit data.
- Demonstrated transformer-based architectures outperform CNN baselines.
- Explored sarcastic context detection, multi-text inference, and GPT-4-based zero-shot generalization.
- Achieved classification accuracy exceeding 80%.

Bitcoin price prediction project

Jan 2023 – Mar 2023

- Used Twitter sentiment analysis to predict bitcoin price trends.
- Applied deep learning and soft voting ensemble methods for performance optimization.

Recipe search engine development

Oct 2022 – Mar 2023

- Developed rank-based search logic and contributed to both frontend and backend.
- Built input guidance functionality using a BERT-based model.

HMM-based speech recognition

Feb 2023

- Built a basic Hidden Markov Model for speech-to-text conversion.

CNN gradient stability exploration

Nov 2022

- Investigated the vanishing gradient problem in CNNs and applied ResNet-style architectures to mitigate it.

Dissertation: Multimodal Suicide Detection: A Novel Approach Integrating Deep Learning and Ensemble Learning

Apr 2022 – Aug 2022

- Integrated OCR-extracted text and visual sentiment features into a deep ensemble model.
- Improved text-only accuracy by 3% using soft voting fusion of CNN-based textual and visual modules.

Experience

Research Intern at Zhejiang University (Supervised by Prof. Ningyu Zhang).

Mar 2024 – Present

- Worked on model merging and interpretability for large language models.
- Published **Explore Model Kinship For Merging Large Language Models**.

Internship at AllLinks (a university-incubated startup).

June 2021 – Aug 2021

- Provided IT issue consultation and computer troubleshooting.
- Developed the frontend of a mobile campus social networking application.

Student IT service at University of Nottingham.

Oct 2020 – Apr 2021

- Provided IT issue consultation and computer troubleshooting.
- Developed a payroll management system to streamline salary processing.

Internship at China Mobile Communications Group Co., Ltd.

Apr 2019 – Aug 2020

- Developed backend modules for a personnel access management system, including database interface design and administration.

Publications

- **Yedi Hu**, Yunzhi Yao, Ningyu Zhang, Shumin Deng, Huajun Chen (2024). Explore Model Kinship For Merging Large Language Models. **[ICLR 2025 SCI-FM Workshop]** (ongoing work).

Honors & Awards

- **Undergraduate Scholarship**, University of Nottingham, Jul 2019
- **MCM Mathematical Contest in Modeling**, Honourable Mention (Problem C), Feb 2020
- **RoboMaster Mech Competition**, Third Prize, Aug 2020