

Huayu Qin

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Education

The University of Leeds | MSc in Advanced Computer Science (Artificial Intelligence) United Kingdom

- **Distinction** 2021 - 2022
- *Modules: Artificial Intelligence (84); Data Science (72); Data Mining and Text Analysis (76); Big Data System (70); Algorithms (78); MSc Project / Dissertation (70)*

South East Technological University | BSc (Hons) in Software Systems Practice Ireland

- **1st Class degree** 2020 - 2021
- *Modules: Web Development; System Security; Business Analysis; Web Service Testing*

Nanjing University of Information Science & Technology | BEng in Software Engineering China

- *Modules: Software Testing; OOP (object-oriented programming); Data Structure; Database* 2017 - 2020

Research Experience

Software Engineer Intern | Python China

Taicang Branch, Institute of Computing Technology, Chinese Academy of Sciences Summer 2020, Summer 2021

- Developed and implemented advanced image detection algorithms for Bubble Wrap Medication recognition using transfer learning and fine-tuning techniques, resulting in a 90% accuracy rate and improved efficiency in the sorting process
- Led the development and deployment of an iterated defect detection feature, resulting in a 15% improvement in accuracy and a significant increase in product quality and customer satisfaction

Research Projects

Multimodal Models of Social Media Misogyny Memes | Python 2022

- Implemented TensorFlow architecture for data feature analysis, incorporating Transform-based BERT and VIT models for extracting text and image features
- Utilized attention mechanism to merge extracted features and inputted into a fine-tuned convolutional neural network, resulting in a recognition rate of 71% for misogyny memes in the test set, an improvement of 8% over the baseline
- Evaluated multi-label and single-label models, finding that multi-label modeling resulted in a 10% increase in accuracy

Technical Skills

- Proficient in Python and Pandas for data analysis, including extraction, cleaning, manipulation, and visualization
- Proficient in PyTorch and TensorFlow framework, including expertise in building models using transformer architecture
- Proficient in SQL and experienced in retrieving data from multiple tables in a database using complex query statements

Academic awards

- **Scholarship:** International Masters Engineering and Computing Scholarship | The University of Leeds
- **Scholarship:** University second-class scholarship | Nanjing University of Information Science & Technology
- **Title:** University Excellent Student Cadre | Nanjing University of Information Science & Technology