

YULONG CHEN

Application for Admission to City University of Hong Kong (Dongguan)

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yulongC



RESEARCH EXPERIENCE

Remote research internship

York University(Information Retrieval and Knowledge Management Research Lab)

2021 年 9 月 - 2022 年 6 月

Toronto, Canada

- Theoretical knowledge and practical skills in machine learning should be applied to the fields of transport, healthcare, and education with a view to predicting and analysing traffic flow, disease prevention and control.
- Responsible for the collation of literature (literature related to cycling prediction and sepsis prediction), model fusion (Stacking, Bagging, etc.) and most of the paper writing.
- The results were published as a JCRQ1 paper (under review) and an EI conference paper, respectively.

MAIN PROJECT EXPERIENCE

Research on the construction method of event knowledge graph based on semantic web technology

University of Chinese Academy of Sciences (UCAS) Project

- This project builds a knowledge graph-based intelligent QA system for medical diagnosis.
- The primary responsibility was to fuse LR and GBDT models and combine them with the corpus to predict users' initial intentions. This involved storing the graph data using the Neo4J database and writing graph-associated query CQL statements. Additionally, the deployment of the BiLSTM-CRF model in the slot filling module and the development of the front-end interface Flask were undertaken. Furthermore, the project was successfully closed with 20,000 RMB of approved funding.
- Others: During the school period, she participated in one provincial innovation and entrepreneurship programme for college students, presided over two university-level scientific research projects, and participated in one project, all of which have been successfully completed.

RESEARCH OUTPUTS

- SCI Q1(under view): 《A Temporal GRU with Ensemble Learning for Early Detection of Sepsis (TGEL-EDS)》, Second author
- CCF C index: 《Research on remote sensing image classification based on Transfer learning and Data Augmentation》, Corresponding author

- EI index: 《Comprehensive Quality Evaluation for Secondary School Students Based on Big Data》, First author
- EI index: 《Data information prediction based on deep fusion GRU-Stacking》, Second author

AWARDS/HONOURS

- National Scholarship for Undergraduates
- Second Prize of the 15th Chinese Collegiate Computing Competition, Second Prize of the Central South Region
- Meritorious Prize of the 4th ShuWei Cup IMCM Certificate of Achievement
- Third Prize of the 13th National University Mathematics Competition
- Third Prize of the 12th Asia and Pacific Mathematical Contest in Modeling Certificate of Achievement
- Computer software copyright 《Django-based software recommendation platform》
- Computer software copyright 《SXV Personalised Triage Management System》
- Others: 6 national awards, 3 provincial awards, and several school-level general first-class scholarships and honours during the period 2020-2022.

SKILLS

- Programming: Python > C++ > Java
- Tools: Scikit-learn, Huggingface, PyTorch
- Others: ML; Data mining; Paper writing; Data visualisation(matplotlib, seaborn); LATEX

EDU BACKGROUND

Undergraduate, Computer Science and Technology

Hubei Normal University

2019.09 - 2023.06

GPA: 3.86/5, Rank: 1/148.