

Rongzheng XIANG

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EDUCATION

Beijing University of Technology, Department of Information(BJUT) Aug 2021-
Jun 2025(Expected)

Bachelor of Engineering in Automation, GPA: 3.56/4.0

Courses: High-level Language Programming, Probability Theory and Mathematical statistics, Advanced Programming Language, Data Structure and Algorithm, Computer Network Application, Introduction of Artificial Intelligence, Digital Signal Processing, Intelligent Detection and Networking Technology, Motion Control System, Modern Control Theory, Embedded System Lab

SKILLS

Programming Languages: C, Python, Java, C++

Software & Framework: Multisim, Quartus II, Keil uVision5, MatLab, Pandas, XCOM

RESEARCH EXPERIENCE

A Sequential Recommendation Model Based on Adversarial Masking and Self-attentive Model
Advisor: Jian YANG, Professor of Artificial Intelligence and Automation Department, BJUT Aug 2023- Present

- Generated user interests prediction by sequential recommendation model
- Iterated the masking model to enlarge similarity distance between training set and masking set
- Iterated the training model to eliminate similarity distance between recommendation item and original item
- Utilized adversarial masking mechanism to optimize the loss function for training model and masking model simultaneously

Research on Hypertension Early Warning Model Based on Electronic Health Records Dec 2021- Mar 2023

Advisor: Jianhui CHEN, Associate Professor of Artificial Intelligence and Automation Department, BJUT

- Processed large volumes of textual dataset via data mining and word segmentation techniques
- Constructed the testing and training dataset with extracted key information
- Participated the hypertension early warning model based on Health Electronic Records dataset research
- Conducted the analysis, evaluation benchmark and test work on warning model

INTERNSHIP EXPERIENCE

State Grid Corporation of China | Project Assistant July 2023 - Aug 2023

- Maintained operation of residential electrical equipment, and collected data information including driving force, load, energy consumption, voltage, current and other aspects of power generation, transmission and distribution.
- Analyzed and processed data, eliminate abnormal data and noise interference to improve data quality and reliability, and provide support for subsequent business decisions.

COURSE PROJECTS

Multi-function Smart Door ringbell design Sep 2023-Present

Advisor: Professor Shuangye CHEN, Integrated practice of embedded systems

Designed the electronic door ringbell supporting dynamic lighting, door knock activity timestamp record functionality
Designed the calendar and clock display for the doorbell via GPRO programming design principle.

ACTIVITIES

Students' Fitness Association of Beijing University of Technology | secretary

- Lead and organized a series of seminar to broadcast fitness knowledge

Students' Voluntary Group of Beijing University of Technology | member

- Participated volunteer activity in Pingleyuan community May Day volunteer service team.
- Participated volunteer activity in Volunteer service of Chinese Super League on May 10th