Yazhe Wan

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undergraduate

EDUCATION

Beijing University Of Posts and Telecommunications 211 Double 1st-Class Sep 2021 - Jul 2025
Telecommunications Engineering and Management International School Beijing
GPA: 90.17 (16 / 327)
Core Courses: Engineering Mathematics (96), Fundamentals of Programming (92), Analog Electronic Circuit Design (94), College Physics (95), Computer Networks (94), Advanced JAVA Programming (95), Digital Signal Processing (95)

PROJECT EXPERIENCE

Maze Exploration Robot Development Jun 2023 - Present
Development of a small robot based on Arduino Mega for maze exploration. The project includes using the Arduino mainboard to control various sensors, motors, servos, and more to implement functions such as ultrasonic obstacle avoidance, intelligent tracking, target detection, camera usage, and Wi-Fi video transmission during maze navigation. My primary responsibilities encompassed robot architecture design, sensor measurement and assembly, embedded code optimization, and on-site functional debugging.

Image-Based Race Detection with Deep Learning: ResNet and VIT Approaches Nov 2023 - Dec 2023
Independent author
Led the development of an image-based race detection system utilizing deep learning techniques. Oversaw the design and training of a Residual Network, implementing transfer learning with models such as ResNet and VIT. Evaluated the effectiveness of CNN, ResNet, VIT, and other networks in smile recognition and 3D head position tasks. Showcased expertise in model optimization and ethical considerations, resulting in robust performance.

Supermarket Management System August Aug 2022 - Sep 2022
Module Leader
This project involved simulating a supermarket management system based on C. The system catered to both supermarket administrators and consumers, aiming to replicate the entire supermarket management and customer purchase process. My responsibilities included algorithm design and optimization, unifying interfaces in the code, overall debugging, and completing the project presentation.

RESEARCH EXPERIENCE

EVA-Score: Evaluating Abstractive Long-form Summarization on Informativeness through Extraction and Validation——submitted to NAACL 2025 (CCF-B)
Yuchen Fan, Xin Zhong, Yazhe Wan, Chengsi Wang, Haonan Cheng, Gaochen Wu, Ning Ding, Bowen Zhou (second author)
Page Count: 20
The paper proposes a new automatic evaluation metric for abstractive long-form summarization, which extracts all information from the summary, identifies overlapping information based on the reference, and calculates an information score.

Benchmark and baselines of LLM as agent, tool learning Sep 2023 - Mar 2024
School of Artificial Intelligence, Nanjing University
ConvAI lab
Baseline of ReAct reasoning method, Science agent, Toolearning. Testing model performances and data processing.

LLM4Score - Human-Aligned Evaluation Metric
Fine-tuning the Tulu-based model to prove its strong Information Extraction abilities in a more advanced evaluation, comparing its performance with baseline or advanced models to determine its advantages.

Construction of a Knowledge Graph Based on Personal Sensitive Information - China Academy of Sciences College Student Innovation Practice Program Jul 2023 - May 2024
Research on Scenario-Based Knowledge Graph Construction for Multimodal Personal Sensitive Information, emphasizing key techniques like graph reconstruction, multi-graph integration, sample attribute mining, attribute association analysis, and deep learning.

Prizes and Honors

Provincial Second Prize of CFCC
Third Prize in the FLTRP English Speech Competition
Excellence Award in the Jingcai Innovation and Entrepreneurship Competition
Outstanding Student Award
Outstanding participant award in school cultural and sports activities

INTERN EXPERIENCE

Shenzhen Sidi Information Technology Co., Ltd. Jul 2023 - Sep 2023
AI Research and Development Department
Xiaosi Writing: Provides a conversational writing service that matches user input with a database to retrieve news headlines and content. It generates responses for LLM (Language Model) through prompts. (Based on Langchain library and the establishment of a local knowledge base for question and answer using LLM, employing Faiss for accelerating top-k vector similarity retrieval, including fast high-dimensional vector similarity calculations and quick searches.

SKILLS LIST

Programming Skills: Proficient in using programming languages such as C、JAVA and Python, with familiarity in MySQL relational database usage. Possesses knowledge of data structures and is adept at using development tools like Idea. Skilled in using deep learning libraries like PyTorch..
English Proficiency: CET-4 (College English Test Level 4): 626, CET-6 (College English Test Level 6): 541, IELTS:7/9