Linsen Gao

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Education

- **Nanjing University of Posts and Telecommunications** September 2020 - June 2024
  Bachelor of Engineering - Communication Engineering ***(GPA: 90.03/100, TOP 6.7%)*** *Nangjing, China*
  Courses: *Communication Principle, Wireless Communication, Signal Process, TCP/IP*

Skills Summary

- **Programming Language**: Python, MATLAB, C, Verilog, Netlogo, Java
- **Language**: Mandarin(native), English(proficient)

Research Intern

- **Using Text Analysis To Predict Connections In A Small Group Chat** Sep 2022 - Present
  Supervised by Prof. Minghai Xu *Nangjing, China*
  - **Research Direction Introduction**:
    - Pioneered a research direction focused on quantifying interpersonal intimacy levels by evaluating connections formed in group chats
    - Applied sentiment analysis to gauge connection strength, leveraging the Ant Colony Optimization algorithm
    - Incorporated real-life observations, identifying conversational redundancy as a key indicator of close relationships
    - Aimimed to integrate these insights into a robust analytical model
  - **Group Chat Analysis and Data Processing** :
    - Identified and selected a suitable group chat for research, leveraging intimate familiarity with its dynamics
    - Managed a relatively small yet dynamic group with frequent communication, featuring on-and-off relationships among couples
- **Predicting Emergency Brake During Driving Based On EEG And EMG** Jan 2022 - Jun 2022
  Supervised by Prof. Liya Huang *Nangjing, China*
  - **Key Responsibilities**:
    - Implemented Euro Truck Simulator as a simulator and replacing internal vehicle components to match real-world scenarios
    - Collaborated with a cross-disciplinary team to integrate multiple data sources, including an EEG cap, smartphone accelerometer, and a homemade FPGA for muscle contraction testing
    - Implemented a weighted fusion algorithm by using multiple data sources to predict final results, showcasing proficiency in algorithm development and integration
  - **Achievements**: 2023 University Student Innovation Training Program Outstanding Conclusion at the School Level **(TOP 5%)**

Internship experience

- **GPT Collaborative Knowledge Base Module for Enhanced Q&A** Jul 2023 - Aug 2023
  IT intern in Nanjing Xin'aoxin Intelligent Technology Co., Ltd. *Nanjing, China*
  - **Key Responsibilities**:
    - Led the development of the GPT collaborative knowledge base question-answering module
    - Integrated the company's internal knowledge base with advanced question-answering capabilities
    - Integrated the module into the company's dedicated communication software

Project experience

- **Course design** Sep 2021 - Dec 2023
  Engaged in a diverse range of intensive two-week course design projects *Nanjing, China*
  - **Word Guessing Game Development**:
    - Developed an interactive word guessing game using C language within the Visual Studio 2019 environment, leveraging the EasyX graphics library
    - Implemented features such as random word selection from a word library, user input handling, and dynamic display of game states
  - **Android Timetable Design App Development**:
    - Implemented application logic in Java, handling aspects such as course scheduling and instructor details
    - Designed an intuitive and user-friendly interface using XML to enhance the user experience
    - Integrated SQLite technology for persistent data storage, ensuring the security and reliability of application data

Honors and Awards

- Outstanding Conclusion of University-Level Student Innovation and Entrepreneurship Project - May, 2023
- School-level second-class scholarship - Sep, 2022
- The Second Prize of Electronic Design Contest for College Students - January, 2021
- Provincial Third Prize in Advanced Mathematics Contest - May, 2021