Zipeng Ling

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Education

Nanjing University of Post and Telecommunication **Sep. 2021 – June 2025**
Bachelor of Telecommunication Engineering, GPA:3.64, 86.4/100 *Nanjing, Jiangsu*
Main Courses: Digital Signal Processing(90), Analog Circuits(92), Signals and Systems(93), Programming C(92), Programming C++(91), Electrical and Electronic Experiments(95), Probability and Statistics(93)

Internship

Robert Bosch, Cross-Domain Computing Solutions Department **June 2023 – Sep. 2023**
Testing Engineer Intern *Suzhou, Jiangsu*
Specific Project: Participated in the development of automated parking software for Mercedes-Benz | C++

- Improve the line coverage of functions. (Ensure the theoretical output values of encapsulated functions are met)
- Detect and fix the bugs in the parking system based on YOLO algorithm.
- Optimize the perception algorithm for parking. (Ensure consistency in detecting the surrounding environment when the car and camera are in motion)

Southeast University, School of Computer Science and Engineering **July 2023 – Present**
HCI Research Intern *Nanjing, Jiangsu*

University of Massachusetts Boston, Department of Computer Science **Jan. 2024 – Present**
AI Research Intern *Remote*

Research

Food Delivery System Interpreting Information Cocoons | *Swift* **Nov. 2023 – Present**

- We investigate how information cocoons influence people's decision making, and record the perception of participants.
- We are currently developing software designed to interpret people's decision-making processes when 'triggered' by a judgment algorithm.
- We want to carry out a proof-of-concept experiment to see whether the interpretbility can influence people's decision making, and help improve the problem of information cocoons.

A Feature-Based Approach to Analyzing Word Complexity | *Python, Matlab* **Feb. 2023**

- We utilized One-Hot encoding for feature extraction of words in 'Wordle', enhancing word-guessing game analytics.
- We applied Gradient Descent Algorithm on the extracted feature matrix to assess individual letter and compute potential 'Complexity Scores'.
- We deployed the trained weight matrix on a test set, achieving 98.33% accuracy in predicting word difficulty.

Technical Skills/Extracurricular

Coding Languages: Python, C++, C

Languages: Chinese (Native), English (TOEFL: 99)

Teaching Assistant in ESL(English As A Language) Program