HAICHANG LI

+1 (765) 694-5954 | li4560@purdue.edu | https://haichang.li/

EDUCATION

(Expected) *Dec.2024*   **Purdue University,** *West Lafayette, US*   **Department of Computer Information Technology**

- B.Sc. Computer and Information Technology and minor in Communications   GPA: 3.97/4.0

PERVIOUS EXPERIENCES

TeamTop3 Co., Ltd   *Apr.2023- Aug. 2023*

Start-up member, Tanyu.mobi   *Shenzhen & Changsha, China*

- In a Post-Covid frozen job market, in order to help disadvantaged new graduates in sinking market to break the information gap to design the resume, Diffusion+ControlNet is deployed to optimize the avatar. Fine-tuned the LLM and explored the prompts to implement the purpose of optimizing and generating text, on the premise of avoiding dangerous topics such as politics.
- During the initial phase of resume-related tasks in cool-start, a sophisticated system employing multiple SOTA models was developed. Utilizing the Bert+BiLSTM+CRF architecture to develop a cutting-edge NER model for analyzing resumes and achieved an outstanding F1 score of 0.93 in the case of fitting.
- In the process of fuzzy search, leveraged GPT and Word2Vec to accomplish word embedding for matching the search phrase with the database based on the word meaning, and achieved by calculating the similarity.
- As PM, independently constructed the AI scheduling platform from 0 to 1 and participated in the user centered architecture process of an AI-powered project that secured 10M+ CNY in initial funding. Simultaneously facilitated cross-functional teams and secured partnerships with external companies to expand business reach.

Ms2Vid in Purdue SERIS Lab   *Feb.2023- Present*

Research SubTeam manager, Purdue University   *West Lafayette, US*

- In order to serve as an assistive technology to help deaf people "listen" to music, AIGC technologies such as Stable Diffusion are used to visualize music based on VA's emotion analysis.
- Deploy models such as MusicBert/BasicPitch to analyze music, while using different models and statistical methods to try to predict music types and separate different signals.
- Integrated GPT-Davinci to establish a connection between audio and image, overcoming synesthetic obstacles through an "AI prompts AI". Explore the different methods of Human-AI collaboration.
- Responsible for paper writing and submission, using user-centric HCI methods to design user studies, design target users, and analyze results using data-centric methods.

Thermal fluid laboratory   *Feb.2022- Jun.2022*

Research Member, Xi'an Jiaotong-Liverpool University   *Suzhou, China*

- To help those involved in the construction design, the team focused on the thermal comfort of the human environment. A variety of methods such as interviews, user surveys and physical detection are used to study the interaction between users and the external environment.
- Developed a predictive thermal comfort model based on PMV using logistic regression with an accuracy of 84%, leading to the development of new products and services.
- Implemented SVM/interpolation modeling techniques to develop a data-driven model for calculating thermophysical properties of R32, contributing to advancements in the field of thermodynamics.

ACTIVITIES AND AWARDS

Associate Co-Chair, *IEEE Student Branch*   *Apr.2021 - May.2022*

Minister of Creative publicity Department, *Science Innovation Association*   *Oct.2021 - May.2022*

Media & Public Relationship department, *Chinese Students and Scholars Association*   *Oct.2022 - May.2023*

SKILLS

Programming: Python, C, MATLAB, JAVA   Communicating Language: Mandarin (Native), English (Fluent)

Used Tools and Frameworks: PyTorch, Scikit-learn, Genism, OpenCV, Arduino, Pandas, Numpy AND PM-related