HAICHANG LI

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EDUCATION

2022-Present **Purdue University** *West Lafayette, US*

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

PERVIOUS EXPERIENCES

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

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

- 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 analysis 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.
- In order to realize the personalized needs of users, Stable Diffusion+ControlNet is deployed to optimize the avatar and QR code, fine-tuned the GPT model and explored the prompts to implement the purpose of optimizing and generating text, on the premise of avoiding dangerous topics such as politics.
- As PM, independently constructed the AI scheduling platform from 0 to 1 and participated in the architecture process of an AI-powered project that secured 10M+ CNY in initial funding. Simultaneously facilitated cross-functional collaborations and secured partnerships with external companies to expand business reach.

Mus2Vid in Purdue HELP Lab *Feb.2023- Aug.2023*

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

- Collect and process data sets, try different models and statistical methods to complete classification/prediction tasks. Test different optimizers or activations and compare the results of different methods. Used early stopping and learning rate scheduling to optimize performance.
- Applied Stable Diffusion/Basic Pitch to transform classical music into video format based on VA emotion recognition, addressing a gap in the audio-to-video field.
- Integrated GPT-Davinci to establish a connection between audio and image, overcoming synesthetic obstacles through an "AI prompts AI" approach. Achieved improved accuracy on audio-to-image conversion tasks.

Thermal fluid laboratory *Jun.2021- May.2022*

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

- Utilized ANSYS software to analyze and simulate valve structures under high parameter conditions, resulting in cost savings and increased safety measures.
- 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/BP neural network/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*

Dean's List and Semester Honors 2022'-2023', Summer Undergraduate Research Fellowship (SURF) 2022'.

SKILLS

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

Used Tools & Frameworks: PyTorch, Scikit-learn, Genism, OpenCV, Arduino, Pandas, Numpy