JINZHOU TANG

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Education

Sun Yat-Sen University - Shenzhen, China   **2021 - present**
Bachelor's Degree in Intelligent Science and Technology   *3.8/4.0 GPA*

- Major Courses: Program Design (1/58), Computer Vision (4/110) and Deep Learning (2/45).
- Supervisors: Xiaodan Liang, Tianshui Chen, Shen Zhao (HCP Lab SYSU)

Research and Practical Experience

HCP Lab   **June 2023 – present**
Research Assistant   *Shenzhen, China*

- Completed the study "VertFound: Synergizing Semantic and Spatial Understanding for Fine-grained Vertebrae Classification via Foundation Models" as **Primary author**. (under review of **MICCAI 2024**)
- Participated in the study "LongMem: Leveraging Historical Insights for Enhanced Long-Horizon Task Planning". (under review of **ECCV 2024**)

Huawei Intelligence Fundation Club   **September 2023 – present**
Technical Director   *Shenzhen, China*

- As the leader of the club, organized **more than ten club activities**, involving **over seventy people** from **nine colleges** across the campus.
- Led the student team to participate in competitions **four times** and authored problems for numerous school-level and provincial-level competitions.

ACM/ICPC Team   **April 2022 – September 2023**
Team Leader   *Shenzhen, China*

- Participated in **over twenty** online individual programming competitions, ranking in the **top 5%** in the Asia region multiple times.

Honours and Awards

- **Second Place** in the National Mathematical Modeling Contest.
- **First Place** in the School-level Electronic Design Contest.
- Received **third-class** scholarship in the first year of college.
- Won Huawei Intelligent Fundation Scholarship.
- Rated **Candidate Master** on **Codeforces** with Rating 1540.
- Awarded as outstanding individual in work-study assistance.

Projects

Video Retrieval Project based on Vision Language Models   Source Code

- Using video difference algorithm to extract key frames, implementing image retrieval and image description based on the CLIP and Clipcap models respectively, achieving precise video retrieval and summarization on a large-scale online video database.
- Implemented a user-friendly software system using Vue for the frontend and FastAPI+PyTorch for the backend.

Encyclopedia Application Supported by Large Language Models   Source Code

- Implemented an encyclopedia application using Vue for the frontend and Django for the backend.
- Built a conversational chatbot with encyclopedia content knowledge based on a privately fine-tuned version of the offline ChatGLM3 model and the RAG method.

Technical Skills

Programming Languages: Python, Golang, C#, C/C++, JavaScript, MATLAB
Frameworks: PyTorch, TensorFlow, MindSpore
Languages: Chinese, English
Tools: Git, Linux, Docker, VSCode