XIAOYANG WAN

(+86) 18928810925 | jeffvan2002@163.com
Research Interest: NLP, Multimodal Model

EDUCATION

Zhejiang University, Zhejiang, China   *Sep 2021- Present*
BS in Computer Science and Technology | GPA: 4.56/5.00 (90.63/100; rank top 20%)
Relevant Coursework: Natural Language Processing(95/100), Artificial Intelligence(93/100), Operating System(98/100), Fundamentals of Data Structures(98/100), Probability and Mathematical Statistics(95/100)

RESEARCH & PROJECT EXPERIENCE

AnyEdit   *Jun 2023 - Present*
Robust SOTA image editing pipelines for various change types like human imagination.
Advisor: Juncheng Li

- Debugged and optimized existing image editing pipelines, including diffusion models and Hugging Face frameworks, to address challenges in large-scale image editing tasks.
- Configured and executed various scripts for the AnyEdit project, including setting up the environment (e.g., Conda), downloading pre-trained weights, and running multiple pipelines with specified parameters.
- Compared performance across pipelines to identify the ideal model for a certain task, analyzing results for accuracy, efficiency, and visual consistency for move&resize pipeline. And use masks of different objects in the image to identify the most ideal object for the task.

Contextual Synthesis for Comprehensive Multi-modal Description   *Jan 2024 – Apr 2024*
Collaborator: Hongjun Liu

- Built a Retrieval-Augmented Generation (RAG) knowledge base by constructing datasets that pair comic images with contextual information retrieved from Wikipedia, utilizing Contriver, a powerful multilingual and cross-lingual retrieval model.
- Enabled language models like GPT to generate contextually accurate responses by retrieving relevant comic descriptions from the knowledge base and combining them with generated image descriptions.

ACTIVITIES

DAMO Academy & ModelScope Practical AIGC Training Program   *Aug 2023 - Sep 2023*

- Created stylized AIGC styles based on base model *majicMix-v6* by prompt-engineering to create solid art style, and trained LoRA to make *New Year Style* portraits.
- Integrated new styles we create into *facechain,* a deep-learning toolchain for generating your Digital-Twin released by modelscope.
- Won 3rd prize in the 6th Open Source Innovation Competition for the new portrait style we provided.

Volunteer of the 19th Asian Games and the 4th Asian Para Games   *Jan 2024 - Apr 2024*

Student Cadre of Information Department of Ziyun&Bifeng Community Qiushi College   *Sep 2022 - Sep 2023*

SKILLS AND INTERESTS

- Computer Skills: deep learning framework (PyTorch); model deployment (Docker); stable diffusion pipelines
- Language Skills: TOEFL Best 114 (speaking 26 writing 28)

AWARDS

Excellent Volunteers for the 19th Hangzhou Asian Games   *Apr 2024*
Awarded by the Asian Games Organizing Committee
Third Class Scholarship, Awarded by Zhejiang University   *Oct 2023*