Xiang Xuan

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EDUCATION

Macao Poly technic University(MPU)

09/2019 - 06/2023 | Macau, China

Bachelor of Science in Computing (GPA 3.5 / 4.0)

Macau Youth Entrepreneurship Course Study

2020 | Macau, China

SCHOLARSHIPS

Macau Foundation Mainland Bachelor Scholarship (4 Years)

2019 - 2023 | Macau, China

WuHou district outstanding student leaders scholarships

2016 - 2019 | Cheng Du, China

SKILLS

- Proficiency in deep learning and NLP related algorithms and tools, including but not limited to BERT, Transformers, LSTM, etc.

- Proficiency in Python programming language, familiar with common NLP libraries and frameworks, such as NLTK, Scikit Learn, PyTorch, Keras, etc.

- Good data processing and data cleaning skills, proficient in using pandas, numpy and other data analysis tools

- Familiar with Linux operating system, familiar with the use of Docker containerization technology, Git version control system and other technologies

- IELTS 6.5 in English, with good English listening, reading and writing skills. And the ability to read paper.

RESEARCH EXPERIENCE

Chinese Handwriting Detection and Recognition

Supervisor: Dr. Tang Su Kit of MPU

08/2022 - present | Macau, China

This project aimed to enhance the CTPN + CRNN model for Chinese text recognition by addressing the drawbacks of traditional CTPN + CRNN models. We designed and executed a comprehensive training data generation and argumentation scheme to achieve this goal.

SELECTED PROJECTS

Anime Portrait Generator   11/2022

GitHub: RottenTangerine/Anime-Portrait-Generator

A DC-GAN-based Japanese anime portrait generator was developed to realize the function of generating realistic anime avatars from random noise using generative adversarial network technology. In addition, the Cycle GAN project was extended to enable users to personalize their own anime style avatars by transforming photos or avatars into anime style images, avoiding the use of pre-made avatars or characters.

Image colorization   09/2022

GitHub: RottenTangerine/ImageColorization-GAN

A hands-on project on image coloring was implemented using a generative adversarial network (GAN) model. The project automatically converts black-and-white images into color images by learning the color distribution between a pair of paired black-and-white images and color images to enhance the visual representation of the images.

Riichi Mahjong Game   07/2022

GitHub: RottenTangerine/mah-jong-JP

The project not only has the basic mahjong game functions but also implements supporting tools such as judging the number of shanten.

Machine Learning Archive   04/2022

GitHub: RottenTangerine/MachineLearning-Basic

As one of the projects of Great CS folk organization. Organized and shared several machine learning models as well as practice projects. Including CIFAR-10 / CIFAR-100 classification, heart disease diagnosis, time series revenue prediction, and handwritten number generation.