CHENYUAN QU

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WORK EXPERIENCE

Allsee Technologies Limited Augest 2022 – Now
Full-Stack Engineer (Machine Learning) *Birmingham, UK*

- Designed and developed a recommendation system and search engine for **Vieunite** Application that leveraged biophilic information in addition to regular metrics. The system achieved a 300% increase in click-through and purchase rates, resulting in a significant boost in revenue for the company.
- Solely completed the **Vieutopia** back-end, an AI-generated artwork platform that utilizes text-to-image and image-to-image models. Optimized and trained the models to produce high-quality, aesthetically pleasing artwork, and implemented Knowledge Distillation to make inference faster and more efficient.
- Designed the security architecture for **Vieutopia** to ensure the protection of user data and prevent unauthorized access to the platform, which has now garnered over 200,000 users as of March 2023.

University of Birmingham Feb 2023 – Now
Research Assistant *Birmingham, UK*

- Conducted research on the interpretable modelling of hydrological models using machine learning techniques to improve accuracy while clearly describing their physical processes.
- Utilized neural networks to search for more appropriate model connections to find unknown underlying patterns.
- Collaborated with a team of researchers to analyze and interpret data, and to develop innovative solutions for complex problems in the field of hydrology.

Nanjing AsiaInfo Software Co.Ltd July 2020 – Sep 2020
Intern - Algorithm Engineer *Nanjing, China*

- Developed a visual customer service anchor using machine learning to synchronize mouth movements with emotions and body language, particularly in the Chinese language context, and aligned with Asian pronunciation habits.
- Optimized the customer service anchor model for mobile applications and collaborated with cross-functional teams to deploy the project in the *China Mobile* mobile app.
- Demonstrated expertise in the end-to-end machine learning process, including feature extraction, object classification, and 3D face model reconstruction to build a comprehensive training database for the model.

EDUCATION

University of Birmingham *2021 - 2022*
M.S. in Artificial Intelligence and Machine Learning - Distinction (about 80%)
University of Southampton *2018 - 2021*
B.S. in Physics - 2:1
Loughborough Grammar School – A Levels *2016 – 2018*
Scholar of school for year 12 and year 13, *British Mathematics Olympiad* Gold Award in 2017 and 2018.
Warminster School – International GCSE *2015 – 2016*

PAPER

Multi-view Self-supervised Disentanglement for Low-level Vision ICCV Under Review
Hao Chen, Chenyuan Qu, Yu Zhang, Jian Wang, Chen Chen, Jianbo Jiao

Geometry-Preserving War-Torn World Synthesise from the Peace World On hold
Chenyuan Qu, Hao Chen, Chen Chen, Jianbo Jiao