Huang Maosen

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Experience

Individual Contributor
The Hong Kong University of Science and Technology
Sep 2023 - Dec 2023 (4 months)
1. Explored the development of lip synchronization driven by voice inputs as part of a digital human generation project.
2. Implemented and improved upon the Wav2Lip algorithm using the HDTF dataset, enhancing the audio extractor for better synchronization.
3. Applied GFPGAN to significantly improve the quality of generated videos, achieving more realistic and visually appealing results.

Individual Contributor
Tongji University
Oct 2022 - Jul 2023 (10 months)
1. Conducted comprehensive research on the performance of deep learning models on data that do not satisfy the independent and identically distributed (IID) condition.
2. Utilized the Domainbed benchmarking protocol to evaluate the impact of various domain generalization algorithms, model backbones, and data augmentation techniques on improving model robustness across different domains.

Team Leader
Tongji University
Mar 2022 - Jul 2022 (5 months)
Did a project about Lane Detection
1, Led a project focused on testing and optimizing the Ultra Fast Lane Detection (UFLD) algorithm on two major datasets: TuSimple and CULane.
2, Spearheaded the algorithmic optimization process, enhancing detection accuracy and computational efficiency.

Education

Tongji University
Bachelor's degree, Computer Software Engineering
Sep 2019 - Jul 2023

The Hong Kong University of Science and Technology
Master of Engineering - MEng, Big Data Technology
2023 - Present

Skills

Engineering • Python (Programming Language) • C++