Lee Zhi Cheng

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Education

Tsinghua University Beijing, CN
Master in Advanced Computing 2023.09 – now

Shanghai Jiao Tong University Shanghai, CN
Bachelor of Engineering in Automation, GPA: 3.44 / 4.3 2017.09 – 2021.06

Tunku Abdul Rahman University of Management and Technology Kuala Lumpur, MY
GCE A-Levels, Results: 3A* 1A 2015.05 – 2016.11

Working Experience

Wise AI **Kuala Lumpur, Malaysia**
AI Engineer 2021.11 – 2023.08

- Face Anti-Spoofing
  - Led the R&D efforts for the development of a face anti-spoofing model.
  - Achieved compliance with ISO-30107 Level 1 Presentation Attack Detection Standards.
  - Managed the entire project lifecycle, including data collection, model design, training, evaluation, and enhancement.
- Digital Avatar
  - Conducted R&D on the technologies behind digital avatar and breaking them down into manageable components based on resource constraints
  - Conducted in-depth research on topics such as talking head and voice cloning, contributing to the team's expertise.
  - Led the development of a functional prototype of a digital avatar with voice cloning abilities.

Research Experience

Final Year Project: MRI Brain Image Retrieval using GNNs. 2020.12 – 2021.06

- Developed Graph Neural Networks for medical image retrieval using **PyTorch**.
- Achieved 2-8% better accuracy compared to similarity learning using CNNs as baseline.

Research Assistant: Semi-supervised Learning (SSL) 2020.09 – 2020.12

- Collaborated on the development of SSL algorithm for image classification task using **Tensorflow**.

Summer Internship: Explaining GANs via Mutual Information. 2020.07 – 2020.08

- Implemented GANs and visualized mutual information of each hidden layers.

Publications

Deep Semi-Supervised Learning via Dynamic Anchor Graph Embedding Learning
Zihao Wang, Enmei Tu, Zhicheng Lee
International Joint Conference on Neural Networks (IJCNN), 2021

Skills

Python, Tensorflow/PyTorch/Keras, Docker, Bash, OpenCV, C++, Matlab

Languages

English - Fluent (IELTS: 7.5), Mandarin - Native speaker, Malay - Fluent