Terence Chow

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📍 Thunder Bay

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in linkedin.com/in/terence-chow-48a61b1b2

○ github.com/terenceylchow124?tab=repositories

TECHNICAL SKILLS

C/C++ CSS HTML5

Javascript Java

SQL MATLAB

Python LaTeX

Linux AWS Cloud

Adobe Illustrator

LANGUAGES AND TRANSFERABLE SKILLS

Cantonese (Fluent)

English (Proficient)

Mandarin (Proficient)

Time Management

Problem Solving

Data Analyzing

Multi Tasking

Adaptability

Teamwork

EDUCATION

Master of Computer Science
Lakehead University

09/2019 - Present   *Thunder Bay, Canada*

- Thesis title: Unsupervised and Semi-supervised Algorithm with Applications.
- Thesis supervisor: Prof. Yimin Yang and Prof. Shan Du.
- Specialization in Artificial Intelligence (GPA: 4.0/4.0).
- Scholarship: Faculty of Science and Environmental Studies (2020), International Graduate Entrance Scholarship (2019), Faculty Research Award (2020, 2019).
- Relevant Coursework: Machine Learning, Deep Learning, Computer Vision.

Bachelor of Electronic Engineering
City University of Hong Kong

09/2015 - 06/2019   *Hong Kong*

- Final year project: Face Recognition Android System via AWS Cloud Server.
- Project supervisor: Prof. Tommy W.S. Chow.
- Major in Information Engineering (GPA: 3.18/4.0).
- Honor: Dean's List Award (Fall 2018, Winter 2019).
- Scholarships: Universal P.C.B. Equipment Co., Ltd. Scholarships (Fall 2018).
- Relevant Coursework: Digital Image Processing, Data Informatics and Learning Systems, Database Systems.

TEACHING EXPERIENCE

Graduate Research Assistant
Lakehead University

09/2019 - Present

- Organize tutoring sessions by giving programming demonstrations and instructions.
- Supervise students with subject knowledge and general abilities in learning and studying.
- Prepare solutions and marking schemes of assignments.
- Review and evaluate assignments and examinations.

SELECTED RESEARCH PROJECTS

Handling Class Imbalance Problem on Text Data (01/2021 - Present)
- Study varying ML and DL sampling techniques for class imbalance (Near-Miss, SMOTE, Easy-Data-Augmentation)
- Apply two word embeddings algorithms to learn text vector representation, pre-trained Glove and Bert model.
- Implement text data processing on Reddit Dataset using Hugging Face library.
- Fine-tune the pre-trained NLP model for binary sentiment classification task.

Weakly-Supervised Image Segmentation (09/2020 - Present)
- Study state-of-the-art methods on supervised and weakly-supervised semantic segmentation models.
- Implement image-preprocessing skill on PASVAL VOC 2012 using OpenCV library.
- Develop a segmentation pipeline via pixels clustering mechanism using PyTorch framework.

Semi-Supervised Clustering Analysis (09/2019 - 08/2020)
- Developed a feature selection based unsupervised classifier via ELM to perform local clustering using MATALB.
- Built progressive sampling based framework for solving semi-supervised clustering problem on tubular and image datasets.
- Perform deep feature extractions on pre-trained DCNNs for image datasets using Keras.
- Finished an academic journal paper (submitted to IEEE TPAMI).

Face Recognition Android System via AWS Cloud Server (09/2018 - 04/2019)
- Implemented PCA to perform face recognition using basic Python library (Numpy, Scikit-learn, OpenCV).
- Used an pre-trained open source model, FaceNet, as a referred model to compare with PCA.
- Established cloud architecture to communicate with AWS cloud system from android system.
- Built an android application using JAVA in Android Studio.