Ming Liang Ang

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE
BS in Mathematics and Computational Biology
Grad in Aug 2023
GPA: 4.77 / 5.0

LINKS

Github:// **neoanarika.github.io**
LinkedIn:// **Ming Liang Ang**
Twitter:// **@neoanarika**

COURSEWORK

UNDERGRADUATE

Machine Learning
Theory and Algorithms for Online Learning
Bayesian Statistics
Stochastic Process
Mathematical Analysis
Linear Algebra
Non-Linear Programming
Bayesian Statistics
Probability and Statistics
Data Structures Algorithms
Programming Methodology

SELF-STUDY

Software Engineering
Natural Language Processing + Practicum
Computer Vision + Practicum
Artificial Intelligence + Practicum *(Research Asst. 2x)*
Unix Tools and Scripting

SKILLS

Machine Learning Frameworks
Tensorflow • Pytorch • JAX
Languages
Python • Java • C/C++ • MATLAB • LaTeX
Development
Jupyter • Git • Anaconda

EXPERIENCE

TERTIARY COURSES | Machine Learning Trainer
Jan 2019 - Present | Singapore

- Taught machine learning to working professionals since 2019.
- Developed some the courseware used by the training center to teach Tensorflow, Pytorch and Python.

KET SG | Machine Learning Engineering Intern
Apr 2019 – Aug 2019 | Singapore

- Worked on fine-tuning language models to parse legal documents
- Implemented prototypical networks to classify clauses in legal documents.

SINGAPORE ARMED FORCES | Data Science and Admin Assistant
Apr 2017 – Apr 2019 | Singapore

- Developed PCA and LSTM models for multivariate time series prediction on the remaining spare parts lifetime.
- Part of the team to explored the possibility of using object detection model such as YOLOv3 to track the usage of spare parts.
- Helped organised Data Science Community of Practice 2017 as MINDEF and its industry partners.

RESEARCH

COLLABORATIVE LEARNING AND ADAPTIVE ROBOTS (CLEAR) LAB | Undergraduate Researcher
May 2020 – Jan 2021 | Singapore

Worked with **Abdul Fatir Ansari** and **Prof Harold Soh** on a general method on refining samples from deep generative models via discriminator gradient flows.

JONATHAN SCARLETT RESEARCH GROUP | Undergraduate Researcher
Jan 2021 – Present | Singapore

Worked with Yang Sun and **Prof Jonathan Scarlett** on using deep generative priors to solve inverse linear problems such as compressed sensing.

SIDE-PROJECTS

COMPUTER VISION WITH GOOGLE CORAL EDGE-TPU COURSEWARE DEVELOPMENT | Lead developer
Nov 2020 – Dec 2020 | Singapore

Led the development of a course on Computer Vision with Google CORAL edge-TPU for mobile robots for Singapore Polytechnic with **Analytics District**.

OXFORD NANOPORE BASE-CALLER USING LSTM WITH ATTENTION | Team Member
Aug 2017 – Spet 2017 | Singapore

Developed a LSTM with Attention base-caller for Oxford Nanopore sequencer as an external participant for CS6101 by **Prof Kan Min Yen**.

PUBLICATIONS

[1] A. F. Ansari, M. L. Ang, and H. Soh. Refining deep generative models via discriminator gradient flow. In *International Conference on Learning Representations*, 2021.