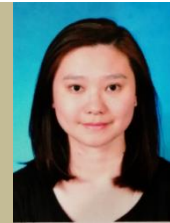


LAI KHAI PING

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Location: Kuala Lumpur, Malaysia



PROFILE:

Machine Learning graduate with a solid understanding in Neural Network & Deep Learning, applied Mathematics, Statistics & Probability, as well as Feature Engineering, Data Modelling & Data Science. The knowledge has provided me the skills to design and analyse complex systems for prediction, modelling, or optimization.

I also have a statistics-related working experience across several industries: from the first foray into corporate investment fund, banking risk management, to market analysis for a startup. This experience has essentially trained me to be a strong problem solver in both qualitative and quantitative manners.

SKILLS HIGHLIGHT:

- Competent level in Python, MATLAB, R and Advanced Excel.
- Knowledgeable in Machine Learning concepts & popular techniques (e.g. ANN, SVM or PCA) and image processing (e.g. optical-related topics).
- Excellent ability on data analysis according to its nature (e.g. signal processing, share pricing, market study, time series and etc.).
- Effective communication in English, Mandarin, Cantonese for both speaking and writing.
- Experienced level in Java, Web Development, C++, C#, Linux System and Acoustics (e.g. acoustic waves, frequency analysis, or synthesizer).

EDUCATION:

Master of Engineering (Machine Learning major)
Queensland University of Technology (QUT)
2014 – 2016

Bachelor of Mathematics (Statistics major)
Queensland University of Technology (QUT)
2008 – 2010

Machine Learning (ML) - PROJECTS:

Commercial Project – Text Mining & Analytics Touch Panel Control Ltd (by project phase basis)

This device is a parenting helper for understanding the children's behaviour and condition, through studying the web contents which they browsed. Fuzzy theory, k-nearest, rules-based inference, or ANN is used to learn the meanings of a text / jargon for delivering assistances; so that the parents "stay in touch", learn to share time / handle conflicts with their children and grow together.

Master Research – Image Analysis for UAV landing Queensland University of Technology (2014 – 2016)

This research aims to investigate a robust Deep Learning architecture to classify different data types, particularly in image classification for automatic aircraft landing. The Long Short Term Memory (LSTM) with Recurrent Neural Network functionality is identified as one of the promising algorithms for the real-world applications. For details can be retrieved: <https://eprints.qut.edu.au/97992/>

Personal Project – Music Acoustics (ongoing)

This hobby started when looking for a free, but decent piano sheet. Apart from learning acoustical phenomena and signal processing, the goal is to deliver a prototype, which can convert a song into a piano sheet, via using ML techniques to learn from the acoustic frequency.

PROFESSIONAL EXPERIENCE:

Junior Trader (Year 2010 – 2011)

Hextar Capital Management Sdn. Bhd.

Monitored Chinese Share Market & major FX market, analysed financial metrics & helped to build portfolio.

Market Risk Associate (Year 2011 – 2012)

OSK Investment Bank.

Measured and aided to redesign methods i.e. VaR / Beta for risk exposure, participated in system enhancement from Guava Treasury Solutions to Misys ENT System.

Market Analyst cum Statistician (Year 2012 – 2014)

Private investors.

Designed approaches or data collection to study market based on consumer segmentation, sentiments, national & local economy analysis to identify, define, & predict demand and the likelihood of attracting newcomers.