

## IRVIN TAN

### CONTACT

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### ABOUT ME

I'm a curious data scientist with a desire to make a mark in the field. My current focus lies in Anomaly Detection, Recommender Systems, and Predictive Modelling.

### SKILLS

Python  
Machine Learning  
Anomaly Detection  
Recommender System  
Problem Framing  
Abstract Thinking

### INTERESTS

Philosophy  
Science  
Photography  
Exploring  
Hiking  
Mountain Climbing  
Entomophagy

### EXPERIENCE

#### Data Science Immersive @ General Assembly — 2017



- Capstone Project: **Recommender System**  
Obtained RMSE of industry standard and intuitive predictions, using Matrix Factorisation (optimised by ALS and SGD), and Restricted Boltzmann Machine, with python classes and TensorFlow
- Capstone II: **Fraud Detection**  
Deployed auto-encoder neural network, and utilised over/under sampling techniques together with ensemble models
- Solved problems through predictive modelling, supervised and unsupervised learning, dimensionality reduction, hypothesis testing, time series, web scraping, feature engineering, regularisation, optimisation, deep learning

#### Support Executive @ Pole To Win — 2016–2017

- Provided support for games, including game testing, bug testing, localisation, translation, investigation, and customer support
- Improved the shift scheduling system
- Streamlined workflow process and data storage

#### English Instructor @ GABA, Japan — 2014–2015

- Delivered specially tailored lessons to each individual (learning management system)
- Cultivated cultural sensitivity for effective communication
- Developed a structure for easier material creation to suit individual needs

#### Private Tutor @ Singapore — 2012–2014

- Customised one-to-one tuition in English and Math for primary to secondary level

### EDUCATION

#### Data Science Immersive @ General Assembly — 2017

#### B.A. in Psychology @ Murdoch University — 2012

Vice Chancellor's Commendation for Academic Excellence