Ho Weiwen, Desmond

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EDUCATION

Singapore Management University   Aug 2018 –Dec 2019
Masters of IT in Business (Analytics)

Modules taken:
    Applied Machine Learning (Scikit-Learn, Keras)
    Text Analytics (NLTK)
    Database Management (MySQL, PHP, ER Diagrams)
    Data Analytics Lab (SAS JMP Pro, SAS Enterprise Miner)
    Algorithm Design & Implementation
    Applied Statistical Analysis with R
    IT Project & Vendor Management (based on PMP syllabus)

University of London, International Programme   Sep 2007 – Sep 2011
Bachelor of Science in Banking & Finance

Singapore Polytechnic   April 2018 – Aug 2018
Fundamentals of Data Science Certificate

WORK EXPERIENCE

Ministry Of Health   Jan 2019 – Jun 2019
Post Graduate Intern – Analytics & Information Management
- Extracted, cleaned and combined data from healthcare finance and various care settings.
- Conducted Exploratory Data Analysis (EDA), Feature Engineering and K-Means Clustering in R for Patient Bill Prediction project which helped Lead Analyst achieve model success.
- Learnt Tableau in 2 weeks, implemented and presented 2 dashboards for monitoring Adverse Drug Reactions (ADRs) to HSA. Under-reporting of ADRs can thus be tracked. https://desmondhw.github.io/ADR-Dashboards/

Bank of Singapore   Apr 2018 – Dec 2018
Business Analyst – Business Transformation (Contract)
- Facilitated and drove accounts aggregation/analytics project with fintech firm Canopy.
- Won gold position in the bank's first Innovation Hub competition. Team received S$1 mil to build a platform for classifying research reports and recommending investments. Implemented a prototype during master's Text Analytics module (under projects).
- Formulated UAT test plans and prepared data which enabled migration of client statements to digital platforms.
- Scheduled weekly meetings with project managers, business users, IT and vendors.

Caleb Investment Management Pte Ltd   Jan 2017 –Apr 2018
Owner/Futures Trader
- Tested, configured and deployed execution algorithm for strategy with programmer.
- Implemented risk management model by passing real-time data feeds into excel and VBA, capturing spread risk which most platforms lacked.

Brahman Capital Management Pte Ltd   Jul 2015 – Dec 2016
Hedge Fund Execution Trader
- FY 2015: 2-men team returned +40% on 1-2 mil AUM (in AUD, net of fees).
- Created execution algorithms in Trading Technologies Algo Design Lab. Configured and tested in-house algorithms with developers, increasing their performance and returns.

Propex Singapore Pte Ltd   Nov 2011 – Jul 2015
Proprietary Derivatives Trader
- Generated positive returns every year while adhering to firm's daily and monthly loss limits.

- Back-tested trading systems on Python with intern using technical indicators, optimization and cross validation. Sample project: https://github.com/desmondhw/curvetenstens

OTHER EXPERIENCES

Wesley Methodist Church Volunteer   Oct 2011 - Current
Musician
- Serve in the music ministry either on bass, electric or acoustic guitar for services.

PROJECTS

Predicting Customer Conversion From Google Merchandise Store   Jun – Aug 2019
- Built Python Scikit-Learn machine learning models to predict if customers visiting Google's Merchandise Store would make a purchase in the next 7 days.
https://github.com/desmondhw/GoogleMerchandiseProject

Sentiment and Sector Classifier for Investment Research Reports   Jun – Aug 2019
- Used text analytics and machine learning models to classify investment research reports by sectors and market sentiment.
https://github.com/desmondhw/InvestmentReportsClassifier

SKILLS/CERTIFICATIONS/INTERESTS

Proficient: Python, R Programming, Tableau, MS Office.
Familiar with: MySQL, SAS JMP Pro, SAS Enterprise Miner, Minitab, PHP.

Certifications: Python for Data, Ops and things – NUS ISS   Nov 2017
The Coder in You (HTML, CSS, JavaScript) – NUS ISS   Dec 2017
CMFAS M5   22 Jun 2010 – 22 Jun 2013
Health Insurance   24 Jun 2010 - 24 Jun 2010

Languages: Fluent in English and Mandarin.

Hobbies: Mountain-biking, electric bass, basketball, and running.