# **Chamal Gomes**

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## **Career Objective**

An enthusiastic and hardworking actuarial graduate who enjoys solving real world problems: I am focused on applying actuarial analytical skills across a wide range of fields and am keen to develop a blend of data analysis expertise and business acumen in my career.

## **Education**

University of Melbourne Bachelor of Commerce (Actuarial Science)	2015 - 2017
University of Melbourne Master of Commerce (Actuarial Science)(Research Pathway)	2018 - 2019
The institute of Actuaries of Australia (IAA)  Exemptions for CT1, CT2, CT3, CT5, CT7	2015-2019
<b>Deeplearning.ai</b> Deep-Learning Specialisation Reinforcement-Learning Specialisation	2018 2018

# **Key Skills**

- Proficient Machine Learning, Deep-Learning and Reinforcement Learning with Python.
- o Strong Python/R skills for feature engineering
- JIRA configuration and management for reporting.
- Tableau/PBI for data visualization and reporting.
- Strong Agile skills for project management.
- VBA for Microsoft suite application automation.
- o Deep-Learning Frameworks: Tensorflow, Keras
- o Reinforcement-Learning Frameworks: OpenAI
- GCP instance configuration and management
- SQL database management and ER modelling
- Data mining with Selenium and variations.

## Experience

#### LILabs Australia - Business Analyst

2019 Jun - Present

- o Project planning and Scrum board management.
- Project stakeholder management and communication.

#### **Unimelb Machine Learning Student Association - Education Officer**

2019 Jun - Present

- Conducting weekly machine learning workshops for machine learning students.
- Managing teams for competing in data science competitions.

#### NMG Consulting - Model Developer

2019 Feb - 2019 Apr

- o Developed deep-learning models for a client of NMG Consulting for fraud detection.
- o Bench-marked industry leading models against Deep-learning models.
- o Presented key findings and final report to client upon completion of the study.

## NMG Consulting - Actuarial Intern

2018 Nov - 2019 Feb

- VBA automation of RBC calculation and industry benchmarking.
- R/R Shiny project engagement and development for industry insights.
- General insurance solvency and liability valuation.

## **Masters Research**

- o Obtained First Class Honors for maters research report, awaiting journal publication.
- Research encompassed the use of Gaussian Restricted Boltzmann Machine (RBM) and Deep-Autoencoders for unsupervised fraud detection.
- Introduced a New Unsupervised Variable Importance sampling methodology with Deep-Autoencoders.

# **Project Experience**

#### **Kaggle IEEE Fraud Detection (Ongoing)** 2019 • Feature engineering and selection using SVAE's. Modelling approach encompass Gradient Boosted Random Forests. Kaggle Generative Image Generation (Ongoing) 2019 Use of Deep Convolutional Generative Adversarial Networks (GANs) for image generation Parallel GPU configuration for training the model on GCP Kaggle Recursion Cellular Image Classification (Ongoing) 2019 Variational Autoencoders is being investigated as the starting point **Kaggle LANL Earthquake Detection Competition** 2019 o Use of Neural ODE along with RNN(LSTM) methodologies for time series prediction. Kaggle Quora Insincere Question classification Competition 2019 Use of Bidirectional RNN for enhanced NLP modelling. EY Next Wave Data Science Competition [81] 2019 Used telematics data for devices such as cellphone to predict future location o Based on the predicted location, classified whether or not the device is in the city zone SOA (Society of Actuaries) Case Study Challenge 2018

- Assessed the sustainability of the long-term care system of a hypothetical country and provide recommendations on continued viability
- o Provided actuarial modelling to estimate the inflows and outflows of the long-term care system, considering factors such as improving mortality, care levels transitions, economic trends, caregiver shortage etc.

### UBS Investment Banking Challenge 🔼

2018

- Advised TABCORP on the merits of the potential acquisition of Tatts.
- Recommended acquisition price using different valuation methods.
- o Provided suggestions on the dealings with regulators such as ACCC, ACT (Australian Competition Tribunal) while staying in line with the regulations.