

Chamal Gomes

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Career Objective

An enthusiastic and energetic actuarial student who enjoys solving real world problems. I am focused on becoming a fully qualified actuary and am keen to deploy my excellent business acumen in a successful actuarial career specializing in advance inference and predictive analytics.

Higher Education

Master of Commerce|2018—expected July 2019

University of Melbourne

Major: Actuarial Science Research

Deeplearning.ai|2019

5-course deep learning specialization

Bachelor of Commerce|2015—2017

University of Melbourne

Major: Actuarial Science

Awards

University of Melbourne Commerce Global
Scholarship 2015

University of Melbourne USA travel Scholarship
2017

Institute of Actuaries Australia

Exemptions for CS1, CM1, CB1, CB2

Skills

- Proficient Machine Learning and Deep Learning skills for data science applications
- Reinforcement learning skills required at advanced model simulation
- Strong coding ability both in producing clean and efficient code as well as debugging and understanding large code bases
- Experience in General Insurance Actuarial liability valuation and RBC assessment.
- Experienced use of modern source control (Git)
- Expert LaTeX skills
- Python: NumPy, Pandas, Sklearn
- TensorFlow and Keras Deep learning frameworks
- Web scraping with Selenium.
- R for Machine Learning and statistical analysis
- VBA for Automation of Microsoft suite applications
- SQL database management and information modelling skills
- Unix Shell scripting for Unix task automation
- HTML for web development
- PowerBI for visualization

Work Experience

INDEPENDENT CONTRACTOR FOR DEEP LEARNING MODEL DEVELOPMENT (FEB 2019 - APRIL 2019)

- Developing deep-learning models for a European client of NMG Consulting for fraud detection.
- Programming of python modules for deep-learning models and supervised models.
- Preparation of the project report to be presented to the client.
- Presenting key findings to the client upon completion of the project.

NMG CONSULTING (DEC 2018 - FEB 2019) - Actuarial Intern

- VBA automation of RBC calculation, valuation and Industry benchmarking.
- Engagement in R-Shiny projects for enhanced industry client presentations.
- Assisted actuarial analysts with valuation and solvency calculation for general insurance clients.

Application of Deep Autoencoders And Boltzman Machines for Insurance Claims Fraud Detection

- Determining the optimal architecture and algorithm for fraud detection
- Comparison of supervised learning methodologies against the performance of Autoencoders and Boltzman machines in fraud detection contextualization.
- Proposing new inference methodologies, allowing greater insight.

Projects

EY NextWave Data Challenge 2019

- Smart city traffic modeling based on telematics data.
- Methods under consideration include Extended Kalman Filter; Simultaneous Localization and Mapping (SLAM)

Kaggle Microsoft Malware Detection Competition

- Stacked RBM for better performance in an autoencoder framework.

Kaggle LANL Earthquake Detection Competition

- Use of Neural ODE along with RNN(LSTM) methodologies for time series prediction.

Kaggle Quora Insincere Question classification Competition (Ongoing)

- Use of Bidirectional RNN for enhanced NLP modelling.

SOA (Society of Actuaries) case study challenge (2018) [\(link\)](#)

- Provided actuarial modelling to estimate the inflows and outflows of the long-term care system, taking into account improving mortality, care levels transitions, economic trends, caregiver shortage etc.

UBS Investment Banking Challenge (2018) [\(link\)](#)

- Advised TABCORP on the merits of the potential acquisition of Tatts.
- Recommended acquisition price using different valuation methods.

Bachelor final year project (2017)

- Provide recommendations for the financing of the superannuation fund under, both defined benefit and accumulation plan.