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 Jan—July 2019
University of Melbourne
Major: Actuarial Science Research
Bachelor of Commerce|2015 July—2017 Dec
University of Melbourne
Major: Actuarial Science
Institute of Actuaries Australia
Exemption for CS1, CM1, CB1, CB2

Awards
University of Melbourne Commerce Global Scholarship 2015
University of Melbourne USA travel Scholarship 2017
Deeplearning.ai|2019
5-course deep learning specialization

Technical Skills

- Proficient Machine Learning, Deep-Learning and Reinforcement Learning skills.
- Strong Python skills with Tensorflow and Keras Deep-Learning frameworks.
- Experienced use of Git for version control and JIRA for project management.
- Expert LaTex skills for documentation.
- Cloud instance configuration and management.
- Web scraping with Selenium.
- VBA for Automation of Microsoft suite applications
- SQL database management and information modelling skills
- R programming for deterministic modelling.
- PowerBI for data visualization and reporting.

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.

Master's Research Thesis

Insurance Claims Fraud Detection with Deep-Learning

- Obtained First Class Honors for the thesis.

- Use of Gaussian Restricted Boltzmann Machine (RBM) and Deep-Autoencoders for unsupervised fraud detection.
- Benchmarking supervised learning against the Autoencoders and RBM in fraud contextualization.
- Introduction of New Unsupervised Variable Importance sampling methodology with Autoencoders.

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.