HISHO RAJANATHAN

21 Abbotts Drive, Wembley, Middlesex, HA0 3SB H: 02089089244 M: 07415407820

Email: hishorajanathan15@gmail.com

TECHNICAL SKILLS

- Languages: SAS, Python, R, SQL, VBA, MATLAB •
- Software: Microsoft Excel, Word, PowerPoint, Access, Microsoft TFS, Tableau, Spotfire, JIRA, MapGIS ٠
- Technologies: Spark, Google Cloud
- **GITHUB** : https://github.com/hishok

EDUCATION & QUALIFICATIONS

MSc Data Science, City University of London

Modules include Machine Learning, Visual Analytics, Data Visualisation, Deep Learning Optimisation, Neural Networks

- Institute and Faculty of Actuaries (Self-Funded)
 - Passed: CT1, CT2, CT3, CT5, CT7 and CB3

BSc. (Hons) Actuarial Science, Cass Business School

- Dissertation "Flood RE Reinsuring UK's Biggest Catastrophe Risk"
- Modules included: Statistical Modelling, Stochastic Modelling, Calculus and Linear Algebra and Financial Economics

Queen Elizabeth's Boys School, Barnet

A Level – Mathematics (A*), Physics (A), Chemistry (A), AS Level - Further Mathematics (A), Geography (A)

WORK EXPERIENCE

The MDU – Actuarial Assistant

- Creating standardised SAS code for team members to extract data from the SAS servers efficiently whilst avoiding errors in data manipulation
- Using big data sets to identify profitable areas of business and presenting this to senior management

Vitality Life – Reinsurance Analyst

- Created a project on increasing direct sales using behavioural economics this was then presented in the Actuarial Conference in South Africa
- Liaising and maintaining relationships with reinsurers and answering ad hoc queries on reinsurance data
- Producing monthly reinsurance accounts and managing the development, documentation and maintenance of system developments on the reinsurance systems
- Improved and streamlined the reinsurance reporting process by using R, which gets sent to reinsurers on a monthly basis
- Created a new reinsurance premium calculator in R which is used to check the system accuracy

Admiral Group – Household Pricing Analyst

- Implemented a new price tracker to analyse market trends and to identify if rate changes were successfully administered; subsequently used by all pricing departments
- Analysing variables and pricing factors to be introduced in cross products using SAS to effectively determine rate changes
- Using external data sources to introduce a new rating structure for different perils; subsequently used by the motor pricing department

CCR Insurance Brokers LTD - Insurance Adviser

Advising clients regarding their insurance needs and liaising with underwriters to process insurance policies effectively Westhill Service Station, Putney – Assistant Manager Nov 2010 - Nov 2015

Promoted to Assistant Manager in June 2015, previously worked as a Customer Service Assistant •

PROJECTS

Tiny Data Science Project – "Impact of news headlines on global stock indices"

- News headlines were collected using The Guardian API using Python
- Sentiment analysis was performed on general news headlines to investigate the impact of headlines on FTSE 100
- Machine learning models were applied to create a basic trading algorithm

Visual Analytics Project - "UK Road Traffic Accident Analysis Study"

Visual analytic approach to investigate UK Road Traffic Accidents using K-means and DBSCAN in Python

Machine Learning Project - "Investigating Absenteeism at Work"

Comparing Multiple Linear Regression and Random Forest Regression using the Absenteeism at Work dataset

Used MATLAB to identify the best machine learning model to predict number of hours of absenteeism at work

Reinforcement Learning Project - "Deep Learning: Optimisation"

Comparing different deep learning techniques to solve the Mountain Car Open AI Gym environment using Python • Computer Vision Project - "Facial Recognition"

- Creating a facial recognition algorithm to identify and label individuals in a class photo
- Used MATLAB for image pre-processing and creating final algorithm
- Creative mode algorithm was implemented where a face mask was superimposed on the individuals face

Neural Network Project - "Predicting and Forecasting A Global Stock Index: LSTM vs NARX"

- Comparing LSTM and NARX to accurately predict the S&P 500 index
- Used MATLAB to identify best model by conducting hyperparameter optimisation on both models

Dissertation - "Using Deep Learning for Object Detection in Real Time for Self-Driving Cars"

Nov 2015 – Dec 2016

Sep 2019 - Sep 2020

Nov 2017 – Sep 2019

Sep 2011 – Jun 2015

Sep 2004- Jun 2011

Nov 2018 – Aug 2019

Dec 2016 - Nov 2018

Aug 2015 – Nov 2015