

# Oliver Eaton

New Plymouth, New Zealand

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*I am an eager and quick learner with an interest in problem solving by use of statistical and machine learning techniques. My strengths include programming and analytics, creativity towards problem solving, explaining statistical concepts in layman terms and an easy-going personality. My latest achievement is facilitating a course at IAG teaching statistical concepts and upskilling the use of R to other employees.*

## Skillset

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### EXPERIENCED WITH:

- R programming, including: Rmarkdown, Rshiny
- Python programming through Jupyter, Pycharm, VSCode or terminal
- Git & Github
- Unix system operation, including: shell scripting, CRON scheduling
- The Microsoft Office Suite, including using VBA to make Excel communicate with: Access, Outlook
- Tableau

### EXPOSURE TO:

- Hadoop Distributed File System (HDFS)
- Java
- Docker
- Arduino programming
- SAS

## Employment History

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### Insurance Australia Group (IAG)|Senior Fraud Analyst

Melbourne, Australia

INSURANCE AUSTRALIA GROUP (IAG) COMPRISES OF SIXTEEN INSURANCE COMPANIES. IT IS THE LARGEST AUTOMOBILE INSURER IN THE SOUTHERN HEMISPHERE, AND ALSO PROVIDES PROPERTY & BUSINESS INSURANCE AS WELL AS SMALLER NICHE INSURANCE PRODUCTS. AS A SENIOR FRAUD ANALYST AT IAG, I WAS TASKED WITH CONTINUAL DEVELOPMENT AND MONITORING OF EXISTING FRAUD BUSINESS RULES. AS WELL AS EXPERIMENTING WITH MACHINE LEARNING AND NEURAL NETWORK TECHNIQUES TO CREATE FRAUD RULES BASED ON AN ANALYTICAL FOUNDATION, AS OPPOSED TO A BUSINESS & FRAUD EXPERIENCE FOUNDATION.

Oct21-Present

### Insurance Australia Group (IAG)|Fraud Analyst

Melbourne, Australia

FRAUD ANALYST

Jun20-Oct21

### Agtuary|RMIT Work Experience; Data Scientist

Melbourne, Australia

RMIT WORK EXPERIENCE; DATA SCIENTIST

Aug20-Oct20

- Predicting crop yield [corn, wheat, grain] of Australian States using satellite images
- Processing images into analysable format
- Analysing and understanding data / different crop farming processes
- Experimenting with different modelling techniques
- Refactoring chosen model into an API for stakeholder consumption
- Presenting findings and experimental process to stakeholders and professors
- Documenting work experience for Masters thesis
- Use of SQL, Python, Git, Excel

### Insurance Australia Group (IAG)|Business Performance, Analyst

Melbourne, Australia

BUSINESS PERFORMANCE, ANALYST

Feb19-Jun20

- Liaising with stakeholders to identify areas that require data visibility
- Identifying relevant data; cleaning, processing and preparing it for reporting
- Visualising data in an informative way
- Report automation; constructing reporting pipelines
- Presenting and educating stakeholders on reporting product
- Use of SQL, Tableau, Excel, Access, PowerPoint

## Roy Morgan|Panel Manager of Web Audience Measurement (WAM) Research

Melbourne, Australia

### PANEL MANAGER OF WEB AUDIENCE MEASUREMENT (WAM) RESEARCH

Oct17-Jan19

- Managing growth of WAM panel respondents
- Ensuring respondents are representative of the internet population
- Monitoring size, activity and “mood” of the panel
- Pre-processing and cleaning data
- Constructing database for reporting purposes
- Use of SQL, Excel, Access, VBA, R

## Roy Morgan|Reporting, Data Analyst

Melbourne, Australia

### REPORTING, DATA ANALYST

Sep15-Oct17

- Liaising with stakeholders regarding reporting requests
- Identifying relevant data; cleaning, processing and preparing it for reporting
- Visualising data in an informative way
- Report automation; constructing reporting pipelines
- Use of Excel, PowerPoint, VBA

## Tenergy Solar|Work Experience; Data Analysis & Visualisation

Melbourne, Australia

### WORK EXPERIENCE; DATA ANALYSIS & VISUALISATION

Jun15-Aug15

- Analysing and reporting on photovoltaic solar data
- Modelling to determine optimum solar panel tilt as a function of time and season
- Depicting parameters to find economic price points for customers
- Use of Excel, R

## Education

### Royal Melbourne Institute of Technology (RMIT)

Melbourne, Australia

#### MASTERS OF DATA SCIENCE – WITH DISTINCTION

2017-20

### Canterbury University

Christchurch, New Zealand

#### BACHELOR OF SCIENCE – MAJORING IN STATISTICS & PSYCHOLOGY

2010-15

## Demonstrated Abilities

### ANALYTICAL SOFTWARE

- Experienced with analytical software: R, Rstudio, Rshiny, Rmarkdown, Python, Jupyter, Git, Github, Linux (OS), Cron Scheduling, Excel, Access, VBA, Tableau
- Exposure to analytical software: SAS, Data Robot, Java, Hadoop Distributed File System (HDFS), Docker, Nexus

### AGILE/MANAGEMENT SOFTWARE

- Experienced with agile software: Jira, Confluence, Teams, Slack, Whiteboard
- Exposure to agile software: Trello, Miro

### MODELLING TECHNIQUES

- Experienced with Supervised Classifiers and Regressors: Decision Tree, Random Forrest & XGBoost Classifiers, KNN, Logistic Regression, Linear, Ridge & Lasso Regression, Decision Tree Regression, and more...
- Experienced with Unsupervised Algorithms: K Means, Principal Components Analysis, DB Scan
- Experienced with Social Network Analysis: Centrality Measures, Information Diffusion, Influence & Homophily
- Experienced with Natural Language Processing: Sentiment Analysis, Topic Classification, Event Detection
- Experienced with Time Series Forecasting: ARIMA & SARIMA Modelling
- Experienced with Neural Networks: Convolutional Neural Networks
- Exposure to Neural Networks: Generative Adversarial Networks, Language Model Transfer learning
- Exposure to Reinforcement Learning: Q Function Optimisation

## Personal Achievements

FACILITATED A 5-WEEK COURSE TEACHING R AND STATISTICAL CONCEPTS AT IAG

2021

SET-UP HOME SERVER TO COMMUNICATE WITH TWITTER API DAILY AND STORE TWEETS IN DATABASE

2021

FULL MARKS ON MASTERS THESIS – FEATURE EXTRACTION FROM SATELLITE AND CLIMATE DATA FOR HIGHLY EXPLAINABLE

2020

PREDICTIVE FINANCIAL MODELS

INVITED TO JOIN RMIT COMPUTER SCIENCE MINOR THESIS PROGRAM

2018

CONGRATULATORY LETTER FROM RMIT FOR ACHIEVING A HIGH-DISTINCTION AVERAGE THROUGHOUT THE YEAR

2017

## Extracurricular Activities

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BEER BREWING • SOCCER • FUTSAL • HIKING • SNOWBOARDING • GUITAR • LIVE MUSIC • CYCLING