

# Angus Hewitt

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## Profile

- **Over 9 years** experience as a Data / Statistical analyst.
- **Masters** of Analytics Degree @ RMIT.
- Advance knowledge of statistical languages and models
- **Baseline Security Clearance** - CSID:CS1053861

## Experience

### **Senior Analytics Consultant - Work Safe Victoria: From April 24**

In this role I am working with the.Fraud analytics team to produce a range of products which can be used to review claims of concern.

To do this I am using advanced statistical methods to create a large range of features which are then feed into unsupervised learning models (principal components and cluster models). The end output is a list of claims which are illustrating high patterns of avoidance behaviours.

### **Senior Data Analyst ~ Job Skills Australia (JSA): Oct 23 - Mar 24**

I was contracted by JSA to produce BI products for a data science team to illustrate the effectiveness of Natural language programming models (NLP) being used to map ASC skills to university curriculums.

To do this I used advanced statistical models to condense a large amounts of information into a few consumable visualisations and statistical summaries, which illustrated the models ability to map relevant skills to the appropriate curriculums.

These output were made available to stakeholders via interactive R-Shiny apps which were deployed using the firm's R-Connect environment.

### **Data Scientist ~ Coles Group: Oct 22 - Apr 23**

I was contracted to work with the advanced analytics team as part of a cloud migration project which involved reproducing Complex R shiny Apps in the firm's new cloud environment. This role was a great learning experience as it gave me the opportunity to advance my skills using GitHub to deploy apps in a cloud environment and work in a very agile environment.

I also played an integral role in improving many of the descriptive and predictive models used within the shiny apps as a team had received feedback that the model outputs did not reflect reality. This was due to the fact that the data was not being shaped in a way which would give any statistical model a chance to fitting meaningful coefficients. Another issue was the use of linear models in cases where the response variable was not normally distributed (typically count variables) this resulted in the models simply returning Zero values irrespective of the value of the input variables.

### **Senior analyst ~ Department of Health: Aug 18 – Sep 22**

In this role I used advanced statistical / predictive models, forecasting, visualisations and descriptive statistics to extract insights and help quantify factors which were driving performance and important issues affecting public health.

An example of this was a Project which involved clustering hospitals together based on their capability levels. After receiving a lot of SME feedback via presentations I decided to use a custom mixture model (cluster model) which allowed me account for patient complexity & volumes, The end output was used by the ministers office and unions to determine the appropriate nursing ratios for new emergency and inpatient wards.

### **Statistical Analyst ~ WorkSafe Victoria: Oct 17 – Aug 18**

### **Performance & Membership Scheme Analyst ~ Ambulance Victoria - Aug 15 - Sep 17:**

## **Education**

### **Master of Analytics - RMIT (2016 Alumni)**

This course has given me the tools and knowledge to perform advanced statistical analysis, modelling and communicate complex findings to non-statistical audiences.

Each class involved working on difficult real world problems using the statistical programming languages R/Python & SAS and presenting findings to a variety of audiences.

# Links

**Shiny App Demo:** [https://uxza8t-singsing2020.shinyapps.io/liver\\_Test\\_Analytics\\_App/](https://uxza8t-singsing2020.shinyapps.io/liver_Test_Analytics_App/)

**Desc:** The shiny app allows users to leverage predictive analytics to understand the likelihood that a patient's has liver disease given the results of a range of diagnostic tests and patient demographics.

**Linkedin:** [linkedin.com/in/angus-h-99b8b886](https://www.linkedin.com/in/angus-h-99b8b886)

**Github data science workspace:** [https://github.com/AngusCHewitt/Data\\_Science\\_Demos](https://github.com/AngusCHewitt/Data_Science_Demos)

## Computer Literacy

Scale	1	2	3	4	5
R					
R Shiny					
SQL					
SAS					
Tableau					
Power BI					
Python					
Excel / VBA					
Github					
VS Code					

**scale above:** One is beginner level, three intermediate and five advanced

# Modelling Experience

Scale	1	2	3	4	5
Clusters					
Principle Components					
GLM					
Forecasting					
Machine Learning					
Mixed Models					
Bayesian					
Longitudinal models					

**scale above:** One is beginner level, three intermediate and five advanced

## References

**Alex Teh: Manager – WorkSafe**

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**Sarah Nelmes - Manager - Coles Group**

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