

CAREER PROFILE

Experienced data scientist with a mathematical background. Previous experience in tutoring and small business ownership mean I am practised at explaining complex concepts and translating technical mathematics into workplace output. In short, I am a well-rounded data scientist who loves challenges and tough problems.



Simon McMahon

Data Scientist


EDUCATION


BMath in Mathematics


2013 - 2017


University of Queensland


Studied Mathematics focusing on applied areas such as statistical analysis, algorithms and optimization. Awarded the Vice Chancellor Scholarship (\$12,000 p.a.) based on academic merit.


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 PDF resume
(/assets/sm_resume.pdf)

 Add to contacts
(/assets/sm_contact.vcf)

LANGUAGES

English (Native)

INTERESTS

Hiking

Ultimate Disc

EXPERIENCES

Data Analyst

2017 - Present

Jacaranda Finance

Data analyst for a financial services company. During my role, I was tasked with improving their credit scoring algorithm using an internal data set. To accomplish this I implemented a variety of statistical (logistic regression, decision tree, random forest) and machine learning methods in R language and oversaw their deployment as an API.

Data Scientist Intern

2017 - 2018

Noisenet

Intern for an ambitious real estate sound monitoring start-up. In my role I wrote unit tests for an AWS Django server; scraped and managed large data sets in AWS databases; and optimized the runtime of an internal tool using mathematical improvements.

Casual Academic Tutor

2016 - 2017

University of Queensland

Academic tutor to 25 students. Tasks involved explaining mathematical concepts, marking assignments and giving constructive feedback to students.

Private Tutor

2013 - 2018

Altius Tutoring

Founder of a 1-on-1 specialist tutoring company for Queensland senior school students. My role included tutoring, marketing, sales and client relationship management.

PROJECTS

Coding projects I have worked on in my spare time.

NY Times Sentiment Analysis (<https://nytimes-emotion.herokuapp.com>) - Responsive webapp analysing the emotion and bias of the NY times most shared articles by social media type. Dash by Plotly backend. Machine learning done with NLTK.

Conspiracy Trivia (<https://assistant.google.com/services/a/uid/0000004af87ac8fa?hl=en>) - A simple trivia game for the Google Assistant and Google Home product lines with a conspiratorial theme.

SKILLS & PROFICIENCY

Python (numpy, pandas)



MATLAB



Amazon Web Services



R language



Database (SQLite, postgresql)



Python (plotly, Django)



Python (TensorFlow)



Photoshop

