REAGAN PRINCE

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PROFILE

I thrive in challenging situations and thoroughly enjoy dealing with complex problems. From a young age, I have linked this passion with mathematics, and have now decided to pursue a career that will allow me to continue to work with numbers, and problem solve. I would also like to obtain a professional qualification, like ACCA, or CFA, while I work. Hopefully, this will allow me to pursue a career in finance and technology.

SKILLS

- R, Python, Matlab
- Microsoft Excel- vlookups, pivot tables, ...
- Bayesian Statistics
- Linear Regression
- K-means
- Decision tree

EDUCATION

University of Bristol *2014 - 2018*

Master in Science (MSci) with First Class Honours in **Mathematics**

second year average: 71.9%, third year average: 79.8%, fourth year average: 77.1%

Relevant modules:

- **Financial Mathematics** (achieved 79%): I have a good understanding of the pricing of financial derivatives and can apply these ideas to a variety of option contracts. An example of this is my knowledge of how to derive the Black-Scholes option pricing formula. This course has enabled me to develop my mathematical modelling skills and enhanced my problem-solving abilities.
- **Monte Carlo Methods** (achieved 82%): I am capable of implementing multiple algorithms in R, in order to solve scientific problems, including Bayesian analysis. I am also able to justify theoretically the use of the various algorithms encountered.
- **Spectroscopy Project** (achieved 75%): This project was on nonparametric regression, with applications in spectroscopy. I researched the "Kernel Regression Estimator", and the more modern "Taut String Method", to find a method of removing noise from spectroscopic data, and automatically obtain relevant information from the graph. I then wrote R code to implement these methods and assess their performance.
- **Randomized Load Balancing Project**(achieved 74%): In this project I researched multiple algorithms for distributing tasks, as they arrive at a server network. I used my knowledge of probability to prove theoretical bounds for each method, then I used R to simulate these algorithms, for large datasets, and show the accuracy of these bounds.

Other relevant modules:

- Applied Probability 2
- Statistics 2
- Stochastic Optimisation
- Ordinary Differential Equations 2
- Applied Partial Differential Equations 2
- Complex Networks 4

Trinity Catholic High School *2007 - 2014*

A Levels: Mathematics (A*), Physics (A), Chemistry (A)

GCSEs: Mathematics (A*), Statistics (A*), Information Technology (A*), Physics (A*), Chemistry (A*), Science B (A), Biology (A), French (A), Physical Education (A), Religious Studies (A), English Literature (B), and English Language (B)

WORK EXPERIENCE

Technical Systems UK *2016 -Present*
Engineer

- Manufacture parts for machinery.
- I explained how to operate our bagging machines as well as their safety procedures to clients.
- Installation and delivery of large machinery.

Trinity Catholic High School *September 2013 - June 2014*
Tutor

- Provided assistance to secondary school students who struggled with maths.
- Ran group sessions for 3 students, where I designed activities to engage the students.

Mohindra and Co Chartered Accountants *December 2011*
Accountant

- Maintained financial records of a client's daily transactions.
- Designed an easy to read table layout, in Excel, to make record keeping more efficient.

OTHER

Squash- I was an active member of the Squash society in the University of Bristol, where I attended weekly training sessions.

I am a regular user of Kaggle.com.

I have a full clean driving licence.

REFERENCES AVAILABLE ON REQUEST