Fast Track Data/AI Graduate Programme

Covering Letter

25/05/2021

My background is in Accounting and Finance with an MSc (Distinction) and a BSc (First-class). The masters programme from a research perspective gave me an appreciation for data and an interest in applying the statistical techniques that were taught.

I have undertook courses provided by the Bangor University Doctoral School which I gained new skills and confidence in my ability to interrogate data and extract as much information as possible. A few courses from Jumping Rivers provided an excellent introduction to the R statistical programming language aimed to train 'advanced beginners' using R for data science. The courses include an introduction to R, data manipulation, statistical modelling in R, R functional programming, and advanced graphics in R. I have also picked up practical skills in Python, and SQL throughout various courses.

Since graduation, I have been working on how best to use R as well as machine learning packages such as caret. To further my interest and see what I could build in R, as well as providing a useful resource to store snippets of code, I built a website in R using the blogdown package, of which is found at RoyWilson.UK. I have also assisted my brother with his research into high entropy alloys by building an interactive dashboard in R shiny which calculates thermophysical properties and the thermal expansion coefficient quickly and with ease for the user. This dashboard can be found at RoyWilson.UK/HEA/.

Sincerely,

Roy Wilson