

Mhairi McNeill

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Experience

Freelance Data Scientist

2016

I work with a variety of clients, analysing data and building data systems. I'm a generalist who can do most projects but I specialise in Shiny development, text mining, visualisation and web scraping.

Data Scientist at deltaDNA, Edinburgh

2014 to 2016

I did statistical research and development, along with some statistical consulting for clients, at a games analytics company.

Projects

- An automatic web scraping, text mining and sentiment analysis system in Python.
- An investigation into player behaviours including building a model to predict propensity to spend.
- A method of estimating an individual's advert revenue, including amalgamating several live data sources.

Skills

- R programming using a range of packages including ggplot2, dplyr, knitr, shiny.
- Python programming including use of NLTK, Pandas, matplotlib and scikit-learn.
- SQL and databases: HP Vertica and PostgreSQL.

Statistician at Lifescan, Inverness

2014

I provided statistical rationale for a project that involved making major changes to the manufacturing process at Lifescan. I worked mainly with Excel and Minitab.

Education

MSc. Statistics at Edinburgh Napier University **2015 onwards**

I am currently pursuing a part-time research masters focusing on the use of statistics for analysing text data.

- My paper *Comparing methods for summarising casual reviews* has been accepted for KDIR 2015.
- I gave a talk on using the Natural Language Toolkit at Python Edinburgh and a talk on the tm library at EdinBR.

MSc. Applied Statistics and Datamining at St. Andrews University **2013 to 2014**

18/20 - Distinction

My first masters was focused on applications of statistics and machine learning. My dissertation involved creating an R package which implemented Riemann Manifold Monte Carlo for Generalised Linear Models.

Design of Computer Programs at Udacity.com **2014**

Highest distinction

Statistics courses from The Open University **2011 to 2013**

Practical Modern Statistics - coursework: 88% final exam: 98%

Analysing Data - coursework: 89% final exam: 97%

Mathematics BSc at the University of Edinburgh **2008 to 2011**

Volunteering

Edinburgh R User's group **2015**

I help to run a group for R programmers.

Prewired **2015**

I volunteer when I can at a weekly group that helps children and young people learn to code.

Playfair Project **2014**

I worked as a volunteer statistical consultant while at university, analysing social media data for a local tourism company.