Cillian Berragan

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First class masters graduate in Geographic Data Science looking to move towards applied machine learning methods in business. I have a keen interest in python for machine learning, and am looking to build my existing knowledge.

Key Skills

Python: Python Projects

- Machine learning; spaCy, PyTorch, sklearn; familiar with deep learning pipelines and mathematical foundations.
- Data Analysis; pandas, numpy, geopandas.
- Data Visualisation; matplotlib, seaborn.
- Object Orientated Programming.

R: R Projects

- tidyverse; Analysis, Preprocessing, Statistics.
- Data Visualisation; ggplot2, sf.
- R Markdown Notebooks; Reporting results in a readable format.

SQL:

- Database querying and relational algebra.
- Database construction.

Written work:

- Academic and professional reports, all at distinction standard during MSc.
- One written assessment during my MSc was awarded the highest grade in that module since the university program began (98%).
- Primarily use the Linux operating system with R Markdown or **MEX** for written work in the Neovim text editor. My dotfiles contain my particular workflow configurations.
- Touch type at 80+ wpm.

Additional Skills: Regex, NLP, LT-X, R Markdown, Linux, Bash, Vim, Git

Education

2019 - present

PhD Student, Data Analytics and Society: University of Liverpool

Improving the Geolocation of Emergency Service Response through Big Data

Advanced NLP with spaCy package. Machine Learning in Python, PyTorch implemented neural networks. Foundational knowledge of deep learning with a focus on NLP. Collaborative work as part of a research lab.

2018 - 2019

MSc Geographic Data Science (Distinction, 82%): University of Liver-pool

Utilised machine learning techniques for geospatial data analysis in both R and Python, and worked with the relational database management system MySQL. All assessments as part of this degree were awarded a distinction (70+%). I recieved the highest overall mark in my programme, and my dissertation was nominated for the RGS Geographical Information Science Research Group (GIScRG) award.

Dissertation: Utilising Supervised Parametric Classification to Assess the Quality of the UK Rural Road Network using Aerial LiDAR Data. (85%)

2014 - 2017

BSc (Hons) Coastal Marine Biology (First-Class, 74%): University of Hull

While this degree had a primary focus on coastal marine ecology it allowed me to develop a keen interest in statistical analysis, in particular through the use of the R software. I utilised R heavily in my undergraduate dissertation for which I received the prize for 'Best Dissertation' in my department.

Employment

2018

Graduate Ecologist: TEP - The Environment Partnership

Daily tasks involved interacting with clients both over the phone and in person on site, preparing quotations for new ecological work and subsequently managing jobs that were accepted by clients. Through this work I gained confidence in a business environment, and developed my leadership and teamwork skills.

Additional Interests

I am interested in the Linux operating system and personally use Arch Linux with the i3 window manager for my work. I strongly believe in reproducibility in any work, and use R Markdown and MEX to produce well formatted, compiled assessments for University, with my themes hosted on my personal GitHub page. I am also passionate about contributing towards the open source programs I use and make pull requests when I am able to.

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