

OLIVER DICKSON

Clinical Data Scientist / Bioinformatician

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PERSONAL STATEMENT

I am a clinical data scientist based at a health AI start up. I am currently leading the development of a sleep score and have developed an UTI detection algorithm. I have experience in machine learning, handling, and modelling large-scale biological datasets and a strong background in statistics. I am fluent in the programming languages R, Python and SQL, as well as experienced in the use of Linux, cloud computing and advanced use of Excel. I am looking to contribute my skills and continue my advancement in data science with your company.

WORK EXPERIENCE

Clinical Data Scientist MiiCare

Oct 2021 - Present

London

- Skills developed:** Ability to work in a team and independently, time management and planning, attention to detail, organisation, a structured approach to dealing with problems and analysis, interdisciplinary communication and presenting to the whole company including CXOs.
- Main duties:** I am currently the lead analyst on Sleep in charge of developing a sleep score algorithm and end to end automated pipeline on MS Azure using Python. This involves analysing the clinical data, conducting literature reviews, communicating with clinicians, and planning and presenting pipeline plans to C-level executives.

RELEVANT EXPERIENCE

MSc Thesis (Distinction)

- Created a data cleaning and analysis pipeline, leveraging high performance Linux cloud computing.
- Performed advanced statistical analysis on a large scale tumour biomedical dataset using both R and Python, identifying several tumour subtypes and significant genes.
- Developed an ensemble stacking machine learning classifier, based on tumour subtype, with an average accuracy of 99.8% in 1,000 cross-validation cycles. This was then used to classify over 3,000 patient cancer samples.
- Successfully presented and defended findings in a viva for which I obtained a distinction.

BSc Dissertation (1st Class)

- Created a SQL database of cancer samples to aid laboratory research.
- Developed a graphical user interface for the database using Python.
- Interface allowed non-coding scientists to perform advanced functions on the database.

Formula 1 Race Result Predictor

- Web scraped every practice and race result from the 2006 to present day.
- Currently optimising for the best inputs and machine learning algorithms to use in the predictor to improve accuracy.
- Correctly predicted three of the top five finishers in the last 5 races.

KEY SKILLS

Python 3 R SQL Excel Linux
Latex Anaconda Jupyter Notebook

Advanced Statistics Azure
Data Analysis Data Visualisation
Data Cleaning Web Scraping
Statistical Testing Statistical Modeling
Machine Learning Cloud Computing

EDUCATION

MSc. (Hons), Precision Medicine: Genomics and Analytics
Awarded Distinction

University of Leeds

Sept 2020 - Oct 2021

BSc. (Hons), Medical Biochemistry
Awarded 2:1

University of Leeds

Sept 2017 - Jul 2020

A-levels in Maths (A), Biology (B) and Chemistry (B)

Queen Elizabeth's Grammar School, Kent
(6th form)

Sept 2015 - Jul 2017

12 GCSEs: 2A*s (including Maths)
4As (Statistics and all 3 sciences) and 6 Bs

Herne Bay High School, Kent

Sept 2010 - Jul 2015

Full UK Driving Licence

AWARDS

Placed on the Faculty of Biological Sciences Dean's List for Academic Achievement

University of Leeds

2021

REFEREES

Professor D. Westhead

Undergraduate dissertation and postgraduate thesis supervisor

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