Andy Challis

Data Scientist

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About me

Andy is extremely passionate about technology, particularly when it comes to investigating cutting edge ideas and applications. Andy has a very strong analytical background which aids in his ability drive insightful change within a team. He also has strong leadership and teamwork skills as a result of playing lacrosse at a high level and captaining an undefeated team.

Interests

- Blogging on data science
- Playing with home automation
- Travelling
- Lacrosse
- Cooking

Skills

- Git
- Statistics
- LaTeX
- R
- DevOps
- SQL
- Python

Objective Statement

To design & deliver solutions using cutting edge technologies that offer valuable insights to drive forward change. **Needs more thought

Education

2015-2016 M.Sci. First class, magna cum laude — Lancaster University

Majoring in Medical Statistics

2012-2015 B.Sc. First class, magna cum laude — Lancaster/Texas A&M

Mathematics & Statistics

2010-2012 College A*AAB — Sale Grammar

Specialising in Maths, Further Maths, Chemistry and Physics.

Awards

2012 Lancaster University Academic Scholarship.

2014 Texas A&M Honours Student.

Experience

2018 Consultant Data Scientist — Capgemini

(Public Sector - SC clearance)

Developed and maintained a custom suite of Python libraries to speed up development within the lab, such as connecting to our Jira instance, logging/interacting with Rocketchat and connecting to our database & incorporating commonly used functions/data types.

Worked closely with the platform team within the lab to drive forward Continous Integration with GitLab using Jenkins and Docker containers.

Technical lead on a scenario to engineer full scale automated pipelines from inception through to beta phase which is presented to users in a front end tool. Advising on implementation of coding standards across the lab.

2017

(Water utilities)

Designed interactive mapping visualisations using both open source technologies for PoC and full scale integration's with IBM's IOC for PoV which links the users decisions to the operations.

Developed algorithms for detecting leaks in pipes using multiple data sources (pressure, flow, pipe attributes, environment, smart meters).

Mentoring junior staff and delivering 'lunch and learn' talks on hot topics.

(Public Sector - SC clearance)

Designed a data science competition (logo recognition in videos) for datasciencechallenge.org which was sponsored by the client.

Created tutorials for ways in which to achieve an out -of-box baseline result using TensorFlow.

Curated images and videos for the competition from both paid-for and CC0 sources.

2016

(Water utilities)

Developed algorithms for predicting how long water in underground reservoirs will last depending on the demand.Using the reservoir prediction algorithm we then laid over a cost model for electricity charges and fines to find an optimal solution for the life cycle of reservoirs.

(Public Sector)

Involved in architecting a data science platform that took advantage of JupyterHub, Docker Swarm, Hadoop, AWS and multiple kernels (Python, R, Julia, Scala etc).