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 increase business value.

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

Worked with the platform team to push 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, 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 integrations 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 and 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-the-box baseline result using TensorFlow.

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

2016

(Water utilities)

Developed reservoir prediction algorithms for predicting how long water in underground reservoirs will last depending on demand. We overlaid a cost model for electricity 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).