

# Connor McShane

## Machine Learning Engineer

ML engineer at Jaguar Land Rover with 2+ years experience working with core data science and machine learning technologies. Experienced with deep learning frameworks and state of the art computer vision algorithms. APM Project Management certified.

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## WORK EXPERIENCE

### Machine Learning, Autonomy Research Jaguar Land Rover

09/2019 - Present

Warwick

#### Achievements/Tasks

- Led algorithm development for time series prediction on vehicle trajectories. Utilized neural networks such as CNNs and LSTMs (often used in NLP).
- Led the development of deep learning, early feature fusion 3D object detection for core perception team.
- Developing vehicle behaviour data-set. Worked with suppliers to capture drone footage. Leading a team of ML engineers to develop a computer vision pipeline for vehicle object detection.
- Developed a reinforcement learning solution to prioritize unit test cases within a GitLab CI pipeline. This was a cross functional project, based on the RETECTS paper.
- Setup upload scripts and data pipelines to migrate test data into GCP. Created BigQuery tables and dashboards and presented to end users.

### Robotic Process Automation Engineer WorkPac

09/2018 - 08/2019

Brisbane, Australia

#### Achievements/Tasks

- Created an automated payment system for agency workers on site in the mining sector. This system included OCR(optical character recognition), linking into email and SAP systems using UIPath.
- Created internal company chat-bots to answer simple HR questions using NLP (natural language processing).
- Automated accounts payable reconciliation tasks linking data between systems.

### Internship - Automation Engineer Schlumberger

08/2015 - 06/2016

Belfast

#### Achievements/Tasks

- Created data logging and reporting applications through MS Access & SQL Server Management Studio.
- Worked with large, unstructured data sets to provide insight for production management.
- Project managed the install of equipment monitoring hardware and software.

## EDUCATION

### MEng Mechanical Engineering (1st Class) Queen's University Belfast

09/2013 - 06/2018

Belfast

## SKILLS

Python

SQL

Communication

Numpy

Pandas

Machine Learning

Deep Learning

scikit-learn

PyTorch

Keras

TensorFlow

Unit Testing

Continuous Integration

GitLab

Computer Vision

Agile

OpenCV

MatLab

## PERSONAL PROJECTS

### Robotics Society (01/2016 - 06/2018)

- Founding member of the Queen's University Robotics Society (facebook.com/QUBRobotics).
- Organised 3D Printer, Quadcopter builds and guest lectures.
- Held first ever Northern Ireland Robotics League competition.
- QUB SU Awards : Best new society (2016), Most improved society (2017).

## ACHIEVEMENTS

### Royal Academy of Engineering Leadership Scholarship Award Winner (2016)

Scholarship awarded to only 35 students across all UK engineering disciplines each year. Scholarship facilitates accelerated personal development.

### Python Programming Assessment LinkedIn (12/2020)

In the top 5% of 1.2M people who took this skills assessment.

### APM Project Management Certification (02/2020)

APM Project Management Fundamentals Qualification. Recognised by the chartered body for the project profession.

## LANGUAGES

English

Native or Bilingual Proficiency

German

Professional Working Proficiency

## INTERESTS

Gaelic Football

Running

Triathlon

3D Printing

AI & Technology

Travelling