

Connor McShane

Machine Learning Engineer

Computer vision & machine learning engineer with three years of experience helping companies in industry advance their AI capabilities.

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📍 Newry

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WORK EXPERIENCE

Machine Learning Graduate Engineer Jaguar Land Rover

09/2019 - Present

Warwick

Achievements/Tasks

- Developed vehicle behavior data-set. Worked with suppliers to capture drone footage. Led a team of ML engineers to develop a computer vision pipeline for vehicle object detection. Had mentorship from a subject matter expert for this project.
- Developed a sift based feature matching stabilization algorithm for Drone data using OpenCV.
- Led algorithm development for the prediction of future trajectories of vehicles. Utilized neural networks such as LSTMs and CNNs.
- 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.
- Helped the validation team to migrate their test data into Google Cloud Platform. Created dashboards and communicated these changes cross functionally.

Robotic Process Automation Engineer Blackbook.ai

09/2018 - 08/2019

Brisbane, Australia

AI and RPA consultancy

Achievements/Tasks

- Helped build an automated payment system for a recruitment agency in the mining sector. This system required the automated reading of hand filled forms.
- Created internal company chat-bots to answer simple HR questions for a recruitment agency.
- Automated accounts payable reconciliation tasks linking data between systems.

Engineering Internship Schlumberger

08/2015 - 06/2016

Belfast

Achievements/Tasks

- Created data logging and reporting applications through MS Access & SQL Server Management Studio.
- 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

C++

SQL

Machine Learning

Deep Learning

Computer Vision

Unit Testing

Continuous Integration

Agile

scikit-learn

TensorFlow

Keras

OpenCV

PyTorch

Pandas

Numpy

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

Limited Working Proficiency

INTERESTS

Running

Gaelic Football

Triathlon

3D Printing

Deep Learning Research

Bake-Off Enthusiast