**Aaron Howell**

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# ABOUT ME

As an AI Engineer intern, with a growth mindset , I enjoy advocating for and applying AI to solve challenging business challenges both independently and in cross-functional teams, to transform, accelerate and automate businesses operations.

# WORK EXPERIENCE

**Live Digital** *– AI Engineer Intern –* Bristol, UK (Jul 2025 – present)

* Designing an **End-to-end AI Automation Pipeline** for a bespoke recruiting client acquisition engine to **accelerate lead generation, qualification and email marketing by up to 100%,** involving the use of **LLMs through OpenAI’s API** to generate leads, fine-tuned on a database of scraped job posts, with a goal of matching candidates from Live Digital’s personnel database for clients hiring professionals.

**Independent Composites Ltd** *– Software Development Intern –* Bristol, UK (Nov 2024 – Apr 2025)

* Designed an **End-to-end Data Transformation Pipeline Algorithm** using an array of stacked Python scripts with subsystems, Error Handling and Debugging, querying an MS Access Relational Database using SQL, to generate financial cost quotes at up to 800% speed for customers in addition to writing an instruction Documentation for how to use it.

**TotalSim** *– Computational Fluid Dynamics Visualisation Intern –* Silverstone, UK (Jul 2021 – Nov 2021)

* Communicated effectively alongside a cross-functional Applied Physics (Aerodynamicist) team to use **Scientific Computing** to produce a Senior-level series of **3D renderings** for the 2021 Formula One prototype for **Formula One Management** **2.8 times faster than the standard operational speed** by using a queuing system that could utilise **parallelism** while I focused on other managing time with **billable client projects** and presenting weekly developments of an advanced formula one vision concept.

# EDUCATION

**MSc. Artificial Intelligence with MyWorld Scholarship** – University of the West of England (UWE) • (Sep 2024 – May 2027)   
• **Status:** Gap Year for working opportunities, resuming for Sep 2026  
• **Topics:** Model Training (Gradient Descent .etc.), Data Science with R, ML, Deep Learning, Cloud Computing (AWS, GCP, Azure)

**BA Honours. Automotive & Transport Design with Placement** – Coventry University (Sep 2017 – Jul 2023) • **Overall grade**: (1st Class)

# RELEVANT EXPERIENCE & PROJECTS

# 97% Accurate ANN Image Classifier *–* Using PyTorch (Jul 2025)

Following tutorials from Pierian Data's "Deep Learning with PyTorch", I built a **97% accurate image classifier** using a custom-built

Artificial Neural Network for the MNIST handwritten digits dataset, enabling prediction of the digit class that an image belongs to.

# NYC Taxi Fare Cost Prediction *–* Using PyTorch (Jul 2025)

# Built a taxi fare prediction model using PyTorch for a regression task based on the NYC Taxi Fares dataset, and designed a custom neural network class from scratch, implementing key components like forward propagation, backpropagation, and gradient descent. The model was trained to predict ride costs using features such as pickup/dropoff location, time, and passenger count, achieving an average prediction accuracy within $3.60 of the actual fare.