Herbie Bradley

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EDUCATION

2019 - 2020	**MSc Data Analytics**	**University of Warwick**

Dissertation: *Dataset Distillation for NLP using Deep Learning*
Selected classes: Natural Language Processing, Agent-Based Systems, High Performance Computing, Research Methods, Data Mining.

2019	**BSc (Hons) Computer Science and Mathematics**	**Keele University**

First Class | Final Grade: **79%**
Dissertation: *An Exploration of Style Transfer with Deep Learning*
Highlights: Natural Computation: 90% | Android Development: 90%
Probability: 100% | Differential Equations: 92% | Abstract Algebra: 87%

PROJECTS

SENTIO
2020

Python
Online deep learning model for classifying the sentiment of Tweets, in PyTorch.
- Classifies Tweets as positive, negative or neutral sentiment.
- Model is deployed to a web server using Flask.

CYCLEGAN
2019

Python
Tensorflow implementation of the CycleGAN deep learning model for style transfer (Zhu et al., 2017).
- Capable of general image-to-image translation. For example: Photo⇔Monet, Summer⇔Winter, Horse⇔Zebra.
- Uses Tensorflow's Eager Execution model and Keras API.
- Part of final undergraduate project.

PERSONAL BLOG
2018

HTML, CSS, Jekyll
A personal site and blog made with the Jekyll static site generator.
- Uses custom CSS and HTML for a responsive theme.
- Includes Disqus comments, Google analytics, and SEO optimisation.

FARM LOGGER
2017

Java - Android Studio
An Android app for management of a farm.
- Utilises an SQLite database to allow users to add, edit and delete records.
- Includes functionality to export the database to a CSV file.
- Project for Android Development module.

SKILLS

KNOWLEDGE OF: Python, Machine Learning (Tensorflow, PyTorch, Keras), Linux, Git, Java (Android Dev.), C++ (OpenMP, MPI, CUDA), MATLAB, LaTeX
EXPOSED TO: R, SQL, HTML, CSS, JavaScript, Ruby, Weka, Lua, Mathematica

Presentations

January 2020	*Finding Sparse, Trainable Neural Networks* - Class Presentation
April 2019	*Style Transfer with Deep Learning* - Keele ML Research Group
March 2019	*The NEAT & HyperNEAT Algorithms* - Class Seminar

Awards

2019 - 2020	Warwick Taught Masters Scholarship

Other

November 2018	Coursera Deep Learning Specialisation - 100%
March 2014	ATCL Diploma in Piano Performance (Distinction)

British national and UK resident.