LUIS DIBDIN

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EDUCATION

Masters of Science in Computer Science *2019 - 2020*
Swansea University Distinction (82.21%)
Bachelor of Science in Mathematics *2016 - 2019*
Swansea University First Class Honours (72.25%)

ABOUT ME

Technical	Machine Learning, Data Mining, Data Visualisation, Probability & Statistics
Coding	Python, Java, MySQL, Dart, LaTeX
Libraries	Pandas, NumPy, scikit-learn, matplotlib, TensorFlow, Keras
Interests	Canoeing and Kayaking, Hiking, Camping, Sea Swimming, Running, Travelling, Yoga

PROJECTS

Mobile Diet Tracking App June 2020 - September 2020 (Distinction - 85%)

- Designed mobile app where a user can use a barcode scanner to track their diet with gamification aspects and user leaderboards.
- Built the app from scratch using Flutter and Google's Firebase service with a NoSQL database.
- Used user data to generate personalised graphs that the user can view to visualise changes in diet.

COVID-19 Data Mining Project March 2020 - May 2020 (78%)

- Used Pandas and matplotlib in Python to clean data and perform explatory data analysis on the John Hopkins University COVID-19 data.
- Predicted following ten days of COVID-19 cases and deaths using a support vector machine.
- Combined COVID-19 dataset with the UN country statistics and ran the data through a random forest to find which factors influence the deaths in each country the greatest.

CIFAR-10 Image Classifier October 2019 - December 2019 (95%)

- Performed the histogram of oriented gradients method to extract features from each image.
- Compared Neural Network and Support Vector Machine classification methods to see which was most accurate by constructing confusion matrices from the results of each classifier.
- Revisited and improved classifier using a Convolutional Neural Network achieving 90% accuracy.

Mathematical Modelling of Biological Waves BSc Dissertation Sep 2018 - May 2019 (76%)

- Researched partial differential equations that have travelling wave solutions.
- Performed phase plane analysis on the Fisher-Kolmogorov equation to find real solutions.
- Simulated numerical solutions of the Fisher-Kolmogorov equation in MATLAB.

WORK EXPERIENCE

Loader's Garage (Esso Petroleum) 2016 - Present
Forecourt Shift Manager

- Responsible for the running of petrol station forecourt. Ensured effective running of operating systems, customer service, and maintaining operational security. All customer liason and invoice management.
- Excellent communication and listening skills are required for this role especially in relation to managing the varying expectations of all customers. Learned how to keep calm under pressure specifically when dealing with stressful situations such as managing crimes in action and the vulnerabilty of handling large sums of money.