EEEN30033 Individual Project - Final		
Supervisor:	Casson, Alex	
Independent:	Hamdi, Khairi	
Student Name:	Jamal, Talha	
Student ID:	10138573	**Mark (%)**
The report has been checked for plagiarism and is	**Satisfactory**	
Is the report within the word / page limit?	**Yes**	**0**
Overview and Background (25%)		**73.5**
The Abstract is	**Suggestive of 2.1 (60-69%)**	
Statements of aims, objectives and motivation are	**Suggestive of 2.2 (50-59%)**	
Literature review/existing solutions are	**Suggestive of 1st class (70-79%)**	
Conclusions (including statement of technical achievement against objectives) are	**Suggestive of 2.1 (60-69%)**	
Technical Achievement (65%)		**74.5**
Theoretical development is	**Suggestive of 1st class (70-79%)**	
Design is	**Suggestive of 1st class (70-79%)**	
Implementation is	**Suggestive of 1st class (70-79%)**	
Testing and discussion of results are	**Suggestive of 2.1 (60-69%)**	
Presentation and Content (10%)		**71.0**
Presentation (including spelling, grammar, figures, tables and formatting) is	**Suggestive of 1st class (70-79%)**	
Content (including sections, references...) is	**Suggestive of 2.1 (60-69%)**	
	Overall Mark (%)	**73.9**
Overall the Report is	**1st class**	
Marker(s):	**Date:**	
Casson, Alex **Hamdi, Khairi**	**08/06/2020**	

Student ID: 10138573

Feedback Comments - suggested improvements:

The project has been marked taking into account the COVID-19 pandemic impact statement provided in the report.

This report investigates the performance of two different deep machine learning algorithms when used for human activity recognition. The networks are trained and validated using different data sets allowing the generalisability of the networks to be investigated. The subject of the project seems to be above the level of an average student, and the students seems to have done a lot of efforts to capture the basic knowledge on "machine learning" and their applications to activity monitoring.

The abstract is well written, although lacking in quantitative results. It is too vague and does not answer the main items of an abstract (what is the subject, what is the main results, and how they were achieved). In addition, it would be better to avoid using non-standard technical jargons in the abstract. A clear introduction and motivation is then given, although the objectives given in the introduction are lacking. More specific objectives are given later, although these are "undersold". The use of multiple data sets and an investigation into why networks trained for the same problem don't work on other data sets it a very important and timely problem in data science. The application of LRP for investigating this is very challenging and novel, and this challenge isn't highlighted. The background section is extremely comprehensive, although with quite a lot of technical jargon without explanations (e.g., Support vector machines, Kubernetes containers, ...). If anything it is likely too long, limiting space for highlighting the student's own work, but it clearly indicates the depth of knowledge obtained during the project. The technical work would have benefitted from more details on the design of the networks and how the different parameters in the networks were decided upon. Were these from the literature or from preliminary work? Good use was made of cloud computing resources to accelerate the work done. A good range of results are present, with a reasonable level of analysis and explanation for why the cross-data set performance is so poor. It would be extremely interesting to see additional work (which was not possible due to time) on the LRP analysis and which features the different networks are picking up which leads them to make different decisions on the two datasets. The report is well presented, althogh more illustrative diagrams to explain and describe the different concepts addressed would have been beneficial.