Minute of Project Supervision Meeting

Student Name:	Martin O'Donnell					
Project Module Code:	CSC4006					
Project Supervisor:	Jesus Martine	Jesus Martinez Del Rincon				
Meeting Number:	3.30	Date of Meeting:	15/10/2019			

Progress since the last meeting, and decisions arrived at during the meeting:

- Setting up recurring meetings on Tuesdays. These are not mandatory but a time slot in which I can use to talk about the project in person. Martin is to email if the meeting is not needed
- Discussed Jesus' role as supervisor. Not to lead but to point when needed.
- Talked about current problems, how accurate we should be. The aim of the project is to generate as many tags for a vehicle (Make, model, type) as possible and get it working for fine grain images (Real-world such as CCTV)
- Talked about how to read papers. Start with abstraction, read results then decide if it is worth reading the full one. Also points on how good papers are. How big is the dataset, how do they display results, are the results any good, do they talk about other approaches
- For the implementation, any implementation language is acceptable.

Action Points:

Read around the problem from existing papers to find out how they do it. Read the abstraction and results to get an idea of the problem. Can look at CNN and come up with some results if I have time

Agreed minute should be signe	ed by the student and initialled by the supervisor.
Student's Signature:	Date:
Supervisor's Initials:JMR	Date:
Supervisor's Comments:	

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Student Name:	Martin O'Donnell				
Project Module Code:	CSC4006				
Project Supervisor:	Jesus Martinez Del Rincon				
Meeting Number:	3.30 Date of Meeting: 29/10/2019				
Progress since the last	meeting, and	decisions arrived	d at during the meeting:		
 The linear non a Max Pooling lay to do this. A co This is repeated model to make p 	ver applies filt activation layer yer used to do ammon one is until a fully opredictions or	ters/kernels across er is used to reduc own size the input 2x2 with max poo	from the previous layer. It uses welling instead of average pooling added to allow the network to all	vindows sizes	
Date of next meeting:					
	ges. Find a cou	uple of clusters en	r. Work out why they are related ding with what I will do for my p 6 and my own model		
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Student's Signature:		signed by the stud	_		
Supervisor's Initials:			.		
Supervisor's Comment	s:				

Student Name:	Martin O'Do	Martin O'Donnell				
Project Module Code:	CSC4006					
Project Supervisor:	Jesus Martinez Del Rincon					
Meeting Number:	3.30 Date of Meeting: 14-1-2020					
Progress since the last	meeting, and	decisions arrived	l at during the meeting:			
			Format. He asked for it to be visualized. 5 model on the Stanford cars dataset.			
Action Points:						
Train a model on high Try remove overfitting			I see if it improves on just training it by itself aford cars dataset			
Date of next meeting:						
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Supervisor's Initials:	JMR		Date:			
Supervisor's Comment	ts:					

Minute of Project Supervision Meeting

Student Name:	Martin O'Donnell			
Project Module Code:	CSC4006			
Project Supervisor:	Jesus Martinez Del Rincon			
Meeting Number:	3.30	Date of Meeting:	18-2-2020	

Progress since the last meeting, and decisions arrived at during the meeting:

Showed off results from the last weeks

- Multitask learning calculating predictions for make, model and submodel. The features vector from model and 3 classifications are input into the final fc layer giving a testing prediction of 81.35%. (Model 43)
- Augmentation methods give an testing accuracy of 82.38%. Added noise and changed colour Explained testing, training and validation datasets. Should be looking at changes in validation data when hyper parameters are changed and hope it translates to better testing. I was fitting my dataset to testing dataset.

Action Points:

- Check results to see if changes in hyper parameter improved on the validation accuracy instead of testing
- Run the more classification multitask learning approach. Get prediction for make, model and submodel, then concatenate and work out loss from this and real label
- Can the precision for each class be recorded to find classes that are more prone to wrong predictions

Date of next meeting:						
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Supervisor's Initials	Date					

	Martin O'Donnell				
Project Module Code:	CSC4006				
Project Supervisor:	Jesus Martinez Del Rincon				
Meeting Number:	3.30	Date of Meeting:			
Progress since the last	meeting, a	and decisions arrived	d at during the meeting:		
Still have overfitting in Jesus give me a report generate			opout structure of the two reports I will need to		
Action Points:					
Add dropout to model Read through the repo	-	h overfitting			
Date of next meeting:					
Agreed mi			ent and initialled by the supervisor. Date:		
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	JMR		Date:		
	JMR		Date:		

Minute of Project Supervision Meeting

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Student Name:	Martin O'Donnell			
Project Module Code:	CSC4006			
Project Supervisor:	Jesus Martinez Del Rincon			
Meeting Number:	3.30 Date of Meeting: 28-1-2020			
Progress since the last	meeting, and	decisions arrive	d at during the meeting:	
will work on th - Will also add a Talked about how reso - We could blur - We could reduce	at. May help vate at. May help vate ugmentation to lution can affect the testing set to the stanford on of different	with the overfitting o data to see how ect accuracy to see how it cope I cars dataset to ad	d out that the learning rate was very high so I g it improves accuracy es with lower resolution d more data to the boxcars l network,mainly about max pooling and how	
Action Points:				
Will work on changing remove overfitting	the learning 1	rate during trainin	g and more work on the architecture to try	
Date of next meeting:				
Agreed min	nute should be	signed by the stud	ent and initialled by the supervisor.	
Student's Signature:			Date:	

Date:

Supervisor's Initials: _____JMR____

Student Name:	Martin O'Donnell				
Project Module Code:	CSC4006				
Project Supervisor:	Jesus Martinez Del Rincon				
Meeting Number:	3.30 Date of Meeting: 24/3/2020				
Started working on the r	multitask lear	ning models. Crea	I at during the meeting: ted the loss function to model relationships tworks such as channel max pooling and		
			talked about reconstructing the labels from the llow a comparison to be made between each		
Date of next meeting:					
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Supervisor's Initials:			Date:		
Supervisor's Comment	ts:				
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Student Name:	Martin O'Donnell					
Project Module Code:	CSC4006					
Project Supervisor:	Jesus Martinez Del Rincon					
Meeting Number:	3.30 Date of Meeting: 3/4/2020					
Finished multitask netw	ork and nearl	ly completed auxili	d at during the meeting: ary networks. Started dissertation. Not much time to train a network.			
channel pooling netwo	ork. More exp	eriments will be ra	ion. Will keep working on improving the n for the fine-to-coarse grain knowledge when finetuned from the cars-196 dataset			
C	nute should be	e signed by the stud	ent and initialled by the supervisor.			
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Supervisor's Initials:			Date:			
Supervisor's Commen	ts:					

Student Name:	Martin O'Donnell			
Project Module Code:	CSC4006 Jesus Martinez Del Rincon			
Project Supervisor:				
Meeting Number:	3.30	Date of Meeting:	14/4/2020	
Nearly finished disserta	tion. Started th	ne software develo	l at during the meeting: pment report as have finished implementing iments to run on the auxiliary learning section.	
Will send dissertation report	off on Thursda	ny for first draft ar	d keep working on the system development	
Date of next meeting:				
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Agreed min		signed by the stud	-	
			Date:	

Student Name:	Martin O'Donnell			
Project Module Code:	CSC4006			
Project Supervisor:	Jesus Martinez Del Rincon			
Meeting Number:	3.30	Date of Meeting:	21/4/2020	
			l at during the meeting: eeting going over the first draft of the	
To finish second draft	of dissertation	and send of back	to Jesus for review	
Date of next meeting:				
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Supervisor's Initials:			Date:	
Supervisor's Commen	ıts:			