

COM814 Project – Final Marking Sheet 2015-16

Student:

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Date:

04/10/2016

Examiner:

Ignacio Rano

2nd Marker (delete)

Areas	Criteria	Excellent	Good	Satisfactory	Borderline	Fail	N/A	Commentary	
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">28%</div>	Software development skills (50%)	From Dissertation							
	• problem definition / requirements specification		X						
	• systematic approach to development	X							
	• testing process documented		X						
	From Demonstration								
	• robustness of software		X						
	• range of functionality		X						
	• data validation	X							
	• usability of HCI		X						
	• consistency with stated functionality of software		X						
	• understanding of software features	X							
	From Viva								
	• understanding of software technology used	X							
• understanding of software features implemented	X								
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">13%</div>	Communication skills (20%)	From Dissertation							
	• documentation structure and completeness		X						
	• readability	X							
	From Demonstration								
	• organized and structured		X						
	• response to questions		X						
	From Viva								
	• composure & coherence			X					
• response to questions		X							
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;">15%</div>	Critical and evaluative skills (20%)	From Dissertation							
	• justification for decisions made throughout project		X						
	• awareness of related work & technologies	X							
	• thoroughness of evaluation process		X						
	From Viva								
	• ability to discuss limitations of work	X							
• discuss potential improvements	X								

Areas	Criteria	Excellent	Good	Satisfactory	Borderline	Fail	N/A	Commentary
Professional Engagement (10%) <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">7%</div>	From Supervisor							
	• took initiative as appropriate							
	• met regularly with supervisor							
	• responded to suggestions							
	• kept satisfactory project log							
Total (100%)	Agreed Total	Scaled (70%)		Earlier Components (30%)			Overall Mark	
<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">63%</div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">63%</div>	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">44.1%</div>		<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">18.9%</div>			<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;">63%</div>	

Overall Comments

This is a very interesting and challenging project, since it includes aspects of machine learning and it is implemented in python, a programming language new to the student. The dissertation is in general well written, but there is room for improvement. It has some formatting issues like: the text is not justified homogenously, and quotes should be italic, also some figures go over the margins.

The problem is defined in the introduction in only one sentence but some terms used should be further developed (e.g. "sentiment", "multiple sources"). The literature review is rather short. The document could be better organised in terms of section ordering, e.g. 1) The description of the methodology done in the intro would fit better on the second chapter, 2) use of sentiment analysis in section 2.4 would better fit in the introduction.

The functional requirements could include some more details on the types of inputs and outputs each processing step has. The report includes a risk analysis section which reflects a careful planning stage of the project.

The Naïve Bayes description is quite accurate, however, because the prior sentiment a given document is uninformative, this classifier is equivalent to an ML classification. A brief review of the other methods used is missing.

The process an individual steps of the sentiment analysis software is very well detailed, and comprehensive.

Probably the weakest part of the dissertation are the test and results sections. Although the results show a comparative table of the seven classification techniques used for different levels of pre-processing of the input text, a deep analysis of the results is missing. For example, the table contains highlighted cells (in red and green) but it is not explained what do they represent (best and worse performance, which has to be guessed by the reader).

Mark Range Guidance

Excellent: 70 - 100:

Here the candidate must demonstrate clear excellence across all aspects of the background research, project report, software/hardware implementation, oral presentation and project management. There must be evidence of originality and creativity, indicated by novel insight, and clearly supported by a high level of initiative, motivation and independent work. The work must be at a level which suggests that the student has the ability to pursue doctoral research. The student must impress the examiners with the elegance of his/her conception of the solution to the problem.

Good: 60 - 69:

To achieve this level there must be significant evidence of wide and deep study in relevant material and texts. This must be placed in its wider academic and research context. There must be an imaginative approach, a balanced treatment of possibilities and comprehensive thinking. The expression of a solution must exhibit an understanding of its relation to the total process. All or most of the project report, software/hardware implementation, oral presentation and project management are considered at least adequate with some parts excellent although there will likely be a lack of creativity or innovative flair.

Satisfactory: 50 - 59:

At this level the candidate has performed a study of the given project but there is not much evidence of in-depth work. All or most of the project report, software/hardware implementation, oral presentation and project management are considered adequate although some or all are not covered in depth. Requirements analysis might include user requirements but lack non-functional requirements. Testing and evaluation might have been conducted, but not as part of an overall test strategy which incorporates formal recording of results. The software/hardware implementation may be available but with a number of flaws and deficiencies and possibly an inadequate coverage of the original specification.

Borderline: 45 - 49:

At this level there has been a reasonable attempt to complete the project overall but either the software/hardware produced and/or the dissertation have fallen below minimum standards. The work is considered redeemable with reasonable effort.

Fail: 0 - 44:

Here the student has failed to achieve a satisfactory level of performance in one or more areas to a level where the work is considered irredeemable. The project area is insufficiently understood, the results untenable, or the written and/or oral presentation of the work is significantly flawed. There may be no software or hardware demonstration. There may have been a complete lack of background research, leading to a serious lack of understanding of the requirements or methodology appropriate to the topic under consideration. All or most of the project report, software/hardware demonstration and oral presentation and project management are inadequate. The supervisor might have found the candidate not attending regular meetings or only providing work towards the end of the project rather than consistently throughout the period.