EEEE3129: Applications of AI in Electrical and Electronic Engineering

Coursework 2

	Coursework 2										
	Example Rubric										
	No Evidence or Contents Not Relavent	Poor	Fair	Adequate	Good	Excellent	Outstanding				
		I	I		Part 1 (20%)						
Task 1.1	No Evidence or Contents Not Relavent	Code written but does not run or is incorrect	Code written and runs but it is not correct	Code Written and runs and performs correctly	Code is written clearly, and properly formatted	Code is efficiently and compactly written, and properly formatted	Code implements additional checks and tests to improve error robustness, speed, or uses additional libraries or features to improve performance				
Task 1.2	No Evidence or Contents Not Relavent	Code written but does not run or is incorrect	Code written and runs but it is not correct	Code Written and runs, checking dataset integrity but no solutions implemented	Code is written clearly, and properly formatted, dataset integrity checked and one solution implemented.	Code is efficiently and compactly written, and properly formatted, dataset integrity checked and analysed with comparison, one solution implemented.	Code implements additional checks and lasts themprofe error robustness, speed, or uses additional thefine or features to improve performance. Dateset integer checker and nanlysed via comparison. Solutions are implemented and compared.				
Task 1.3	No Evidence or Contents Not Relavent	Code written but does not run or is incorrect	Code written and runs but it is not correct	Code Written and runs, checking dataset integrity but no solutions implemented	Code is written clearly, and properly formatted, dataset integrity checked and one solution implemented.	Code is efficiently and compactly written, and properly formatted, dataset integrity checked and analysed with comparison, one solution implemented.	Code implements additionact secks and tests to improve error robustness, spied, of uses additional libraries or features to improve performatice. Disease tir degrity checked and analysed via compagnon. Solurians are implemented and compared.				
Task 1.4	No Evidence or Contents Not Relavent	With attempts, but not correct.	With attempts, but partially correct, or solutions identified, but with no adequate discussion.	Solutions Identified, with adequate discussion.	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation method discusser or partially verified.	Solutions Identified, analysed, compared with quantified evidence in Supporting the discussion. Code implementation applied.				
Task 1.5	No Evidence or Contents Not Relavent	Code written but does not run or is incorrect	Code written and runs but it is not correct	feature_dataset and label_dataset have been created, with the right format	feature_dataset and label_dataset have been created, with the right format, and the dates are well aligned.	feature_dataset and labor, dataset have been created correctly, with the right format and its integrity has been checked	feature_dataset and label_staset in the been created correctly, with the right format and some priviles been checked and efficient solutions applied and justifued.				
Task 1.6	No Evidence or Contents Not Relavent	Code written but does not run or is incorrect	Code written and runs but it is not correct	Code written and runs, figures plotted separately	Code written and runs, figures are aggregated properly	Code is efficiently and compactly written, and properly formatted, fig res are aggregated properly, well formatted	Code is efficiently and compactly written, and properly formatted, mures are aggregated properly, well formatted, and code in a longentation and figure representation is professional.				
Task 1.7	No Evidence or Contents Not Relavent	With attempts, but not correct.	With attempts, but partially correct, or solutions identified, but with no adequate discussion.	Solutions Identified, with adequate discussion.	Solutions identified analysed, compared with quantified evidence in supporting the discussion Part 2(20%)	Solutions Identified, analysid, compared with quantified endence in supporting the discussion. Code implementation method discussion partially verified.	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation applied.				
Task 2.1	No Evidence or Contents Not Relavent	Code written but does not run or is incorrect	Code written and runs but it is not correct	Code Written and runs and performs correctly	Cone is written clearly, and properly formation	Code is efficiently and compactly written, and properly formatted	Code implements additional checks and tests to improve error robustness, speed, or uses additional libraries or features to improve performance				
Task 2.2	No Evidence or Contents Not Relavent	Code written but does not run or is incorrect	Code written and runs but it is not correct	Code written and runs, figur, s plotted separately	ode written and runs, figures ar aggrigated properly	Code is efficiently and compactly witten, and properly formatted, figures are aggregated properly, well formatted	Code is efficiently and compactly written, and properly formatted, figures are aggregated properly, well formatted, and code implementation and figure representation is professional.				
Task 2.3	No Evidence or Contents Not Relavent	With attempts, but not correct.	With attempts, but partially correct, or solutions identified, but with no adequate discussion.	Solutions Identified, with	Solutions identified, analysed, compared with quantified evidence in supporting the discussion	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation method discussed or partially verified.	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation applied.				
Task 2.4	No Evidence or Contents Not Relavent	With attempts, but not correct.	With attempts, but partially correct, or solutions upntified, but with fo adequate discussion	Solutions Identified, with adequate discussion.	solutions Identified, analysed, compared with quantified evidence in supporting the discussion	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation method discussed or partially verified.	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation applied.				
Task 3.1	No Evidence or Contents Not Relavent	With attempts, but not connect.	With exempts but partially correct, as solutions identified, but with no elegate discussion.	Solutions Identified, with adequate discussion.	Part 3(20%) Solutions Identified, analysed, compared with quantified evidence in supporting the discussion	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation method discussed or partially verified.	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation applied.				
Task 3.2	No Evidents or Condents Not Retivent	Withotempts, but not correct.	With attempts, but partially correct, or solutions identified, but with no adequate discussion.	Solutions Identified, with adequate discussion.	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation method discussed or partially verified.	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation applied.				
Task 3.3	No Evidence or Contents Not Relayent	With attempts, but not correct.	With attempts, but partially correct, or solutions identified, but with no adequate discussion.	Solutions Identified, with adequate discussion.	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation method discussed or partially verified.	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation applied.				
Tasl 3.4	No Evidence or Contents Dot Relaven	With attempts, but not correct.	With attempts, but partially correct, or solutions identified, but with no adequate discussion.	Solutions Identified, with adequate discussion.	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion Part 4(20%)	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation method discussed or partially verified.	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation applied.				
Task 4.1	Not Relevent	Code written but does not run or is incorrect	Code written and runs but it is not correct	Code Written and runs and performs correctly	Code is written clearly, and properly formatted	Code is efficiently and compactly written, and properly formatted. Integrity checks applied.	Code implements additional checks and tests to improve error robustness, speed, or uses additional libraries or features to improve performance. Integrity checks applied.				
Task 4.2	No Evidence or Contents Not Relavent	With attempts, but not correct.	With attempts, but partially correct, or solutions identified, but with no adequate discussion.	Solutions Identified, with adequate discussion.	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation method discussed or partially verified.	Solutions Identified, analysed, compared with quantified evidence in supporting the discussion. Code implementation applied.				

	No Evidence or Contents										
	Not Relavent. Function	Code written but does not run	Code written and runs but it								
Task 4.3	modified.	or is incorrect	is not correct	overall_performance > 10	overall_performance <= 10	overall_performance <= 1	overall_performance <= 0.5				
	No Evidence or Contents										
	Not Relavent. Function	Code written but does not run	Code written and runs but it								
Task 4.4	modified.	or is incorrect	is not correct	rmse_performance >= 1	rmse_performance <= 0.5	rmse_performance <= 0.1	rmse_performance <= 0.05				
Overall Assessment (20%)											
Printout	No HTML printout of workbook uploaded			HTML printout of work book up	ploaded		HTML printout well formatted				
Comment	No Comments Sor		ne comments, too brief or vague		Useful comments throughout code		Useful comments throughout code and well formatted.				
Variable	Variables have non-										
names	descriptive names Variable names are words but		ut are ambiguous or vague	e ambiguous or vague Variables sensibly named		Variables sensibly named and professionally formatted.					
tidiness,	·				Some python features (e.g. list	Code is of a professional					
indenting			Code is mostly tidy with appropriate spacing, indenting		comprehensions) are used	standard that could be reused by others and makes					
compact	Untidy code with poor spacing or indenting, code is clunky		used. No python language features exploited but code		appropriatley to produce compact,	use of python features while					
ness	and long winded.		readable, easy to follow		readable code	still being readable					
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