

Assignment 1 Marking Rubric

Criterion	Does not meet expectations	Meets expectations	Exceeds expectations
Task 1	<p><input type="checkbox"/> Q1. Data import or merging are incorrect, leading to significant errors. Initial data exploration is unclear or incorrect.</p> <p><input type="checkbox"/> Q2. Data transformation and filtering are incorrect, leading to significant errors. The dataset is incomplete or inaccurate.</p> <p><input type="checkbox"/> Q3. Data preparation and variable classification are incorrect, leading to an incomplete or disorganised dataset.</p>	<p><input type="checkbox"/> Q1. Data is mostly imported and merged correctly. Initial exploration is adequate with minor errors or omissions.</p> <p><input type="checkbox"/> Q2. Data transformation and filtering are mostly correct with minor errors. The dataset is adequately prepared.</p> <p><input type="checkbox"/> Q3. Data preparation and variable classification are mostly correct with minor errors. The dataset is adequately prepared.</p>	<p><input type="checkbox"/> Q1. Data is accurately imported and merged. Initial exploration is clear and insightful, showing a strong understanding.</p> <p><input type="checkbox"/> Q2. Data transformation and filtering are accurate and well-executed. The dataset is complete and correctly prepared.</p> <p><input type="checkbox"/> Q3. Data preparation and variable classification are accurate and well-executed, resulting in a well-prepared and organised dataset.</p>
Task 2	<p><input type="checkbox"/> Q4. Missing values are either not imputed or imputed incorrectly, disregarding variable types and best practices.</p> <p><input type="checkbox"/> Q5. Conversion of values is incorrect, leading to inaccurate or incomplete data.</p> <p><input type="checkbox"/> Q6. Dummy variables are incorrectly created, original variables are not properly handled, and all required procedures are not completed.</p>	<p><input type="checkbox"/> Q4. Missing values are mostly imputed correctly, with consideration for variable types, but may have minor errors or inconsistencies.</p> <p><input type="checkbox"/> Q5. Conversion of values is mostly correct with minor errors. The transformed data is usable.</p> <p><input type="checkbox"/> Q6. Dummy variables are mostly created correctly, with the original variables deleted but may have minor issues.</p>	<p><input type="checkbox"/> Q4. Missing values are accurately and appropriately imputed, with a clear understanding of variable types and best practices.</p> <p><input type="checkbox"/> Q5. Conversion of values is completely accurate, with the data correctly transformed and ready for analysis.</p> <p><input type="checkbox"/> Q6. Dummy variables are correctly created and managed, with the original variables properly deleted and all required procedures are completed.</p>
Task 3	<p><input type="checkbox"/> Q7. The numpy arrays for y and X are incorrectly created or not created at all.</p> <p><input type="checkbox"/> Q8. Data is incorrectly split, with issues in the proportions, stratification, or standardisation.</p>	<p><input type="checkbox"/> Q7. The numpy arrays for y and X are mostly correct, with minor issues in data storage or selection.</p> <p><input type="checkbox"/> Q8. Data is mostly correctly split and standardised, with minor issues in any step.</p>	<p><input type="checkbox"/> Q7. The numpy arrays for y and X are correctly created, with all values accurately stored and selected.</p> <p><input type="checkbox"/> Q8. Data is accurately split and standardised, with appropriate stratification and consistent application of all parameters.</p>
Task 4	<p><input type="checkbox"/> Q9. Incorrectly trains classifiers, with significant issues in implementation or accuracy computation.</p> <p><input type="checkbox"/> Q10. Fails to comment on or provides an inaccurate comparison of accuracies, missing key insights on overfitting, classifiers performance, and nonlinearities.</p>	<p><input type="checkbox"/> Q7. Successfully trains classifiers with minor issues, and computes accuracies with reasonable accuracy.</p> <p><input type="checkbox"/> Q8. Provides basic comparison of accuracies with some insights into overfitting, classifiers performance, and nonlinearities.</p>	<p><input type="checkbox"/> Q7. Correctly trains both classifiers, computes and accurately reports accuracies.</p> <p><input type="checkbox"/> Q8. Thoroughly compared and analyses accuracies, offering clear and accurate insights into overfitting, classifiers performance, and nonlinearities.</p>
Format/ Instructions	<p><input type="checkbox"/> Writing is weak. Numerous grammatical and spelling errors are apparent. Organisation is poor and style is not appropriate</p> <p><input type="checkbox"/> Did not comply submission instructions, including incorrect formatting, use of unnecessary comments, or failure to use Markdown appropriately.</p>	<p><input type="checkbox"/> Writing is adequate. Some grammatical and spelling errors are apparent. Organisation is logical and style is appropriate.</p> <p><input type="checkbox"/> Mostly complied, submission instructions, but there might be minor issues with formatting, occasional unrequested comments and use of Markdown.</p>	<p><input type="checkbox"/> Writing is of excellent quality. No grammatical and spelling errors are apparent. Organisation is excellent.</p> <p><input type="checkbox"/> Fully adhered to submission instructions with correct formatting, appropriate and consistent use of Markdown.</p>