Rubric for Supervised Learning:

Criteria	Demonstrating Proficiency 30 to > 27 points	Approaching Proficiency 27 to > 23 points	Developing Proficiency 23 to > 19 points	Emerging 19 to > 0 points	Incomplete 0 points	Pts
Deliverable 1: Use Resampling Models to Predict Loan Risk	√There is an accuracy score and confusion matrix for ALL THREE algorithms.	√There is an accuracy score and confusion matrix for ALL THREE algorithms.	√There is an accuracy score and confusion matrix for ALL THREE algorithms.	√There is an accuracy score and confusion matrix for ALL THREE algorithms.		
	✓A classification report is generated for ALL THREE algorithms.	✓A classification report is generated for TWO of THREE algorithms.	✓A classification report is generated for ONE of THREE algorithms.	✓Code is written to generate a classification report for ONE or more algorithms.		30.0
		✓ Code is written to generate a classification report for the third algorithm.	✓Code is written to generate a classification report for TWO algorithms, but there are errors.			
	Demonstrating Proficiency 15 to > 13 points	Approaching Proficiency 13 to > 12 points	Developing Proficiency 12 to > 9 points	Emerging 9 to > 0 points		
Deliverable 2: Use the SMOTEENN Algorithm to Predict Loan Risk	✓There is an accuracy score for the SMOTEENN algorithm.	√There is an accuracy score for the SMOTEENN algorithm.	√There is an accuracy score for the SMOTEENN algorithm.	√There is an accuracy score for the SMOTEENN algorithm.		15.0
	√There is a confusion matrix for the SMOTEENN algorithm.	√There is a confusion matrix for the SMOTEENN algorithm.	√There is a confusion matrix for the SMOTEENN algorithm.	✓Code is written to generate a confusion matrix for the SMOTEENN algorithm.		
	✓A classification report is generated for the SMOTEENN algorithm.	✓Code is written to generate a classification report for the SMOTEENN algorithm, but there is a minor error.	✓Code is written to generate a classification report for the SMOTEENN algorithm.	✓Code is written to generate a classification report for the SMOTEENN algorithm.		
	Demonstrating Proficiency 25 to > 22 points	Approaching Proficiency 22 to > 18 points	Developing Proficiency 18 to > 16 points	Emerging 16 to > 0 points		
Deliverable 3: Use Ensemble Classifiers to	√There is an accuracy score and confusion matrix for TWO algorithms.	√There is an accuracy score and confusion matrix for TWO algorithms.	√There is an accuracy score and confusion matrix for TWO algorithms.	√There is an accuracy score and confusion matrix for TWO algorithms.		25.0
Predict Loan Risk	√A classification report is	✓A classification report is	✓A classification report is	✓Code is written to generate a		

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	generated for TWO algorithms. ✓The list of features is sorted in descending order by feature importance.	generated for TWO algorithms. ✓The list of features is not sorted in descending order by feature importance.	generated for ONE of TWO algorithms. ✓ Code is written to generate a classification report for the second algorithm. ✓ Code is written that lists the features sorted in descending order by feature importance.	classification report for ONE of TWO algorithms. ✓ Code is written that lists the features sorted in descending order by feature importance.		
	Demonstrating Proficiency 6 points to > 5 points	Approaching Proficiency 5 to > 4 points	Developing Proficiency 4 to > 3 points	Emerging 3 to > 0 points		
Deliverable 4: Structure, Organization, and Formatting	The written analysis has ALL of the following:	The written analysis has ALL of the following:	The written analysis has ALL of the following:	The written analysis has ALL of the following:		
	√There is a title, and there are multiple sections.	√There is a title, and there are multiple sections.	√There is a title, and there are multiple sections.	√There is a title.	6.0	
	✓Each section has a heading and subheading.	✓Each section has a heading and subheading.	AND ONE of the following:	√There may be a subheading for a section.		5.0
	√There are images and references to code, and they are formatted and displayed correctly.	es to code, and they are formatted and displayed references to code, and they are	✓ Each section may have a heading and subheading. ✓ There are images and references to code, and they are formatted and displayed	√There are no headings for each section, but there are three sections.		
		0.10.0.	correctly, with one or two minor errors.			
	Demonstrating Proficiency 24 to > 20 points	Approaching Proficiency 20 to > 18 points	Developing Proficiency 18 to > 16 points	Emerging 16 to > 0 points		
Deliverable 4: Analysis	√The purpose is well defined.	√The purpose is well defined.	√The purpose is well defined.	√The purpose is well defined.		
	√The balanced accuracy score and the precision and recall scores for ALL SIX algorithms are described.	√The balanced accuracy score and the precision and recall scores for FIVE of the SIX algorithms are described.	√The balanced accuracy score and the precision and recall scores for FOUR of the SIX algorithms are described.	√The balanced accuracy score and the precision and recall scores for THREE of the SIX algorithms are described.	2	24.0
	√The results are summarized, and there is a recommendation on which model to use or justification.	√The results are summarized, but the recommendation on which model to use or justification is not clear.	√The results are summarized, but there is no recommendation on which model to use or justification.	√The results are summarized, but there is no recommendation on which model to use or justification.		
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