	Mastery	Approaching Mastery	Progressing	Emerging	Incomplete
Summary and Analysis (40 points)	Presents a cohesive written analysis that:  ✓ Describes the precision and recall scores. ✓ Describes the balanced accuracy score.  ✓ Includes a final recommendation on the model to use, if any. ✓ Provides justification for your recommendation.	Presents a cohesive written analysis that does three of the following:  ✓ Describes the precision and recall scores. ✓ Describes the balanced accuracy score.  ✓ Includes a final recommendation on the model to use, if any. ✓ Provides justification for your recommendation.	Presents a developing written analysis that does three of the following:  ✓ Describes the precision and recall scores. ✓ Describes the balanced accuracy score.  ✓ Includes a final recommendation on the model to use, if any. ✓ Provides justification for your recommendation.	Presents a limited written analysis that does two of the following:  ✓ Describes the precision and recall scores.  ✓ Describes the balanced accuracy score.  ✓ Includes a final recommendation on the model to use, if any.  ✓ Provides justification for your recommendation.	No submission was received -OR- Submission was empty or blank -OR- Submission contains evidence of academic dishonesty
Oversample the data using the random oversampler and SMOTE algorithms (20 points)	The submission does all of the following: <pre></pre>	The submission does three of the following:  ✓ Train a logistic regression classifier (from Scikit-learn) using the resampled data.  ✓ Calculate the balanced accuracy score, using balanced_accuracy_score from sklearn.metrics.  ✓ Generate a confusion matrix.  ✓ Print the classification report (classification_report_imbalanced from imblearn.metrics).	The submission does two of the following: <pre></pre>	The submission does one of the following:  ✓ Train a logistic regression classifier (from Scikit-learn) using the resampled data.  ✓ Calculate the balanced accuracy score, using balanced_accuracy_score from sklearn.metrics.  ✓ Generate a confusion matrix.  ✓ Print the classification report (classification_report_imbalanced from imblearn.metrics).	
Undersample the data using the cluster centroids algorithm (20 points)	The submission does all of the following:  ✓ Train a logistic regression classifier (from Scikit-learn) using the resampled data.  ✓ Calculate the balanced accuracy score, using	The submission does three of the following:  ✓ Train a logistic regression classifier (from Scikit-learn) using the resampled data.  ✓ Calculate the balanced accuracy score, using	The submission does two of the following:  ✓ Train a logistic regression classifier (from Scikit-learn) using the resampled data.  ✓ Calculate the balanced accuracy score, using	The submission does one of the following:  ✓ Train a logistic regression classifier (from Scikit-learn) using the resampled data.  ✓ Calculate the balanced accuracy score, using	

	balanced_accuracy_score from sklearn.metrics.  ✓ Generate a confusion matrix.  ✓ Print the classification report (classification_report_imbalance d from imblearn.metrics).	balanced_accuracy_score from sklearn.metrics.  ✓ Generate a confusion matrix. ✓ Print the classification report (classification_report_imbalanced from imblearn.metrics).	balanced_accuracy_score from sklearn.metrics.  ✓ Generate a confusion matrix.  ✓ Print the classification report (classification_report_imbalanced from imblearn.metrics).	balanced_accuracy_score from sklearn.metrics.  ✓ Generate a confusion matrix.  ✓ Print the classification report (classification_report_imbalanced from imblearn.metrics).
	The submission does all of the following:	The submission does three of the following:	The submission does two of the following:	The submission does one of the following:
Use a combination approach with the SMOTEENN algorithm (20 points)	✓ Train a logistic regression classifier (from Scikit-learn) using the resampled data. ✓ Calculate the balanced accuracy score, using balanced_accuracy_score from sklearn.metrics. ✓ Generate a confusion matrix. ✓ Print the classification report (classification_report_imbalance d from imblearn.metrics).	✓ Train a logistic regression classifier (from Scikit-learn) using the resampled data. ✓ Calculate the balanced accuracy score, using balanced_accuracy_score from sklearn.metrics. ✓ Generate a confusion matrix. ✓ Print the classification report (classification_report_imbalanced from imblearn.metrics).	✓ Train a logistic regression classifier (from Scikit-learn) using the resampled data. ✓ Calculate the balanced accuracy score, using balanced_accuracy_score from sklearn.metrics. ✓ Generate a confusion matrix. ✓ Print the classification report (classification_report_imbalanced from imblearn.metrics).	✓ Train a logistic regression classifier (from Scikit-learn) using the resampled data. ✓ Calculate the balanced accuracy score, using balanced_accuracy_score from sklearn.metrics. ✓ Generate a confusion matrix. ✓ Print the classification report (classification_report_imbalanced from imblearn.metrics).