

FinTech Unit 11 Homework: Grading Rubric

Criteria	Ratings			
Resampling <ul style="list-style-type: none"> • Data Oversampled with Naive Random Oversampler and SMOTE algorithms. • Data Undersampled with Cluster Centroids algorithm. • Data Over and Undersampled with combination of SMOTEENN algorithm. • For all methods: Generate the Balance Accuracy Score, Confusion Matrix and Classification Report. Classification Analysis <ul style="list-style-type: none"> • Best Balanced Accuracy Score model determined. • Best Recall Score Model determined. • Best Geometric Mean Score determined. 	35 Points Mastery <ul style="list-style-type: none"> • Completed 7 out of 7 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario • Code is free of bugs 	34 > 28 Points Approaching Mastery <ul style="list-style-type: none"> • Completed 4 out of 7 of requirements • Code runs without error • Code produces results as expected 80% of the time 	28 > 23 Points Progressing <ul style="list-style-type: none"> • Completed fewer than 2 out of 7 requirements • Code runs without error • Code produces results, but not necessarily the correct results 	23 > 0 Emerging <ul style="list-style-type: none"> • Completed 1 or none out of the 7 requirements • No submission • Code runs with error
Ensemble Learning <ul style="list-style-type: none"> • Balanced Random Forest and Easy ensemble Classifiers trained using Quarterly Data. • Balance Accuracy Score calculated from <i>sklearn.metrics</i>. • Confusion Matrix printed from <i>sklearn.metrics</i>. • Classification Report generated using <i>imbalanced_classification_report</i> from <i>imbalanced learn</i>. • Feature Importance printed and sorted in descending order for balanced random forest classifier along with Feature Score Classification Analysis <ul style="list-style-type: none"> • Best Balanced Accuracy Score model determined. • Best Recall Score Model determined. • Best Geometric Mean Score determined. • Top Three Features determined. 	35 Points Mastery <ul style="list-style-type: none"> • Completed 9 out of 9 requirements • Code runs without error and produces the assigned results • Code accounts for all possible scenario • Code is free of bugs 	34 > 28 Points Approaching Mastery <ul style="list-style-type: none"> • Completed 6 out of 9 of requirements • Code runs without error • Code produces results as expected 80% of the time 	28 > 23 Points Progressing <ul style="list-style-type: none"> • Completed 4 out of 9 requirements • Code runs without error • Code produces results, but not necessarily the correct results 	23 > 0 Emerging <ul style="list-style-type: none"> • Completed 2 or none out of the 9 requirements • No submission • Code runs with error
Coding Conventions/Formating <ul style="list-style-type: none"> • Appropriate header, name, short description at top of the notebook • Imports are at the top of the file, just after any headers or subheads. • Files read in from relative file path • Functions and variable names are descriptive, lowercase, with words separated by underscores • Clean code, no repetition, maintainable and highly reusable code. • Appropriate code wrapping and cell sizes • Appropriate subheads as needed 	10 Points Mastery	9 Points Approaching Mastery	8 Points Progressing	8 > 0 Emerging
Deployment/Submission <ul style="list-style-type: none"> • Files submitted in personal repo • Appropriate directory structure with correct files needed to run scripts • Appropriate commit messages • Appropriate README 	10 Points Mastery	9 Points Approaching Mastery	8 Points Progressing	8 > 0 Emerging
Documentation/Comments <ul style="list-style-type: none"> • Code is well commented with concise, relevant comments 	10 Points Mastery	9 Points Approaching Mastery	8 Points Progressing	8 > 0 Emerging

TOTAL POINTS

Points

0

Feedback

0

0

0

0

0

LETTER GRADE
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