Prediction of Online Shoppers' Purchasing Intention Using Ensemble (Bagging, Boosting, Stacking) Learning Methods

David Akinmade CS 831 200440384

I. INTRODUCTION

In most cases, the fate of an online business boils down to it's ability to improve the turnover rates of the shoppers that browse through their website into shoppers that end up making an eventual purchase. Key to improving this metric is the ability to predict which sessions are more likely to end up in a purchase and that is what this project aims to achieve. A couple of other techniques including traditional machine learning algorithms and neural networks (Sakar et al)¹ have been applied to predict shoppers' intention. This project however explores solving this binary classification problem using the three prevalent Ensemble learning methods namely: model bagging, model boosting and model stacking.

Ensemble Learning also known as Multiple Classifier Systems have been used extensively in the world of data science ever since Professor Leo Breiman of Berkeley popularized the term 'Bagging' in his 1994 paper². The core idea of Ensemble Learning is to aggregate the results of several classifier models into a single model that performs better than any of the individual models that constitute it. Model Bagging achieves this by training several homogeneous weak learners in parallel and then averaging their results, Model Boosting trains several homogeneous weak learners sequentially before combining their results and Model Stacking combines together several heterogeneous models and makes use of of a meta-model to select the best predictions of each base model for each instance.

This report details the individual steps carried out in this project which was carried out entirely in Python 3 (using Jupyter Notebook) from the Objectives to the Methodology where the data pre-processing and transformation is discussed. After that, how each modelling method and algorithm implemented used is also shown and finally, a comparative analysis is conducted on the results of each of the three Ensemble methods used in order to demonstrate the limits of each approach. In its conclusion, other related work and possible areas of model accuracy improvement are discussed.

II. PROJECT OBJECTIVES

The goal of this project is two fold. First is to conduct binary classification of online shoppers sessions, using the three main Ensemble Learning methods (of bagging, boosting and stacking) into 2 categories. Secondly, is to carry out a comparative analysis of which Ensemble method performs better by producing the best level of Accuracy, F1 score, Precision and Recall on the Online shoppers' dataset. Expected outcome example:

Input:

BounceRates	ExitRates	PageValues	SpecialDay	Month	Operating Systems	Browser	Region	TrafficType	VisitorType	Weekend	Revenue
0.200000	0.200000	0.0	0.0	Feb	1	1	1	1	Returning_Visitor	False	False
0.000000	0.100000	0.0	0.0	Feb	2	2	1	2	Returning_Visitor	False	False
0.200000	0.200000	0.0	0.0	Feb	4	1	9	3	Returning_Visitor	False	False
0.050000	0.140000	0.0	0.0	Feb	3	2	2	4	Returning_Visitor	False	False

Output:

ID	Revenue
0	0
1	0
2	1
3	0

III. METHODOLOGY

The data used in this project was the Online shoppers' intention data by UCI's Machine Learning Library obtained on Kaggle³. The dataset is comprised of feature vectors that was obtained over the course of 12,330 sessions, where each session belongs to a different shopper in a 1 year period. Of the 12,330 sessions, 10,422 (84.5%) resulted in no purchase while 1,908 (15.5%) resulted in a purchase.

A. Exploratory Data Analysis

TABLE 1: Numerical features used in the Online Shoppers' Intention analysis model⁴

Feature name	Feature description	Min. value	Max. value	SD
Administrative	Number of pages visited by the visitor about account management	0	27	3.32
Administrative duration	Total amount of time (in seconds) spent by the visitor on account management related pages	0	3398	176.70
Informational	Number of pages visited by the visitor about Web site, communication and address information of the shopping site	0	24	1.26
Informational duration	Total amount of time (in seconds) spent by the visitor on informational pages	0	2549	140.64
Product related	Number of pages visited by visitor about product related pages	0	705	44.45
Product related duration	Total amount of time (in seconds) spent by the visitor on product related pages	0	63973	1912.25
Bounce rate	Average bounce rate value of the pages visited by the visitor	0	0.2	0.04
Exit rate	Average exit rate value of the pages visited by the visitor	0	0.2	0.05
Page value	Average page value of the pages visited by the visitor	0	361	18.55
Special day	Closeness of the site visiting time to a special day	0	1.0	0.19

The Table 1 above gives the statistical overview of all the numerical features present in the dataset, while Table 2 below gives the statistical overview of all the categorical features present in the dataset. Since the dataset was gathered by the Machine Learning Library of UCI, some preliminary data cleaning had already been carried out on it such that there were no missing or null values in the data points or columns.

The tables also give a brief explanation as to what summary of what each column feature means with respect to the online shopping sessions.

TABLE 2: Categorical features used in the Online Shoppers' Intention analysis model⁴

Feature name	Feature description	Number of
		categorical values
OperatingSystems	Operating system of the visitor	8
Browser	Browser of the visitor	13
Region	Geographic region from which the session has been	9
	started by the visitor	
TrafficType	Traffic source by which the visitor has arrived at the Web	20
	site (e.g., banner, SMS, direct)	
VisitorType	Visitor type as "New Visitor," "Returning Visitor,"	3
	and "Other"	
Weekend	Boolean value indicating whether the date of the visit is	2
	weekend	
Month	Month value of the visit date	12
Revenue	Class label indicating whether the visit has been finalized	2
	with a transaction	

B. Data Transformation and Standardization

The next step in the data processing is the encoding of all the categorical features listed in Table 2 into numerical features. This is because none of the models we are going to be working with would be able to process data that is not entirely in numerical form. To achieve this, LabelEncoder was imported from Scikit-learn and used to one-hot encode each categorical variable.

TABLE 3: Raw features before label encoding

:elated_Duration	BounceRates	ExitRates	PageValues	SpecialDay	Month	Operating Systems	Browser	Region	TrafficType	VisitorType	Weekend	Revenue
0.000000	0.200000	0.200000	0.0	0.0	Feb	1	1	1	1	Returning_Visitor	False	False
64.000000	0.000000	0.100000	0.0	0.0	Feb	2	2	1	2	Returning_Visitor	False	False
0.000000	0.200000	0.200000	0.0	0.0	Feb	4	1	9	3	Returning_Visitor	False	False
2.666667	0.050000	0.140000	0.0	0.0	Feb	3	2	2	4	Returning_Visitor	False	False
627.500000	0.020000	0.050000	0.0	0.0	Feb	3	3	1	4	Returning_Visitor	True	False

TABLE 4: Features after label encoding

luctRelated_Duration	BounceRates	ExitRates	PageValues	SpecialDay	Month	Operating Systems	Browser	Region	TrafficType	VisitorType	Weekend	Revenue
0.000000	0.20	0.20	0.0	0	2	0	0	0	0	2	0	0
64.000000	0.00	0.10	0.0	0	2	1	1	0	1	2	0	0
0.000000	0.20	0.20	0.0	0	2	3	0	8	2	2	0	0
2.666667	0.05	0.14	0.0	0	2	2	1	1	3	2	0	0
627.500000	0.02	0.05	0.0	0	2	2	2	0	3	2	1	0

After the encoding, the target feature 'Revenue' was then removed from the dataset and the remaining features were transformed by using StandardScaler from Scikit-learn to scale them such that their mean becomes zero and the standard deviation 1. This is necessary so as to prevent data points from features with high numerical values from unfairly skewing the predictions in any particular way, therefore leading to more accurate predictions by the Ensemble models.

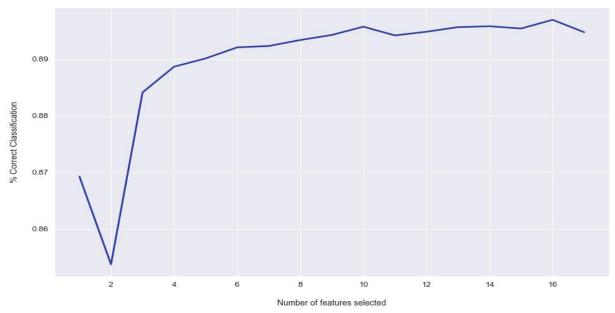
TABLE 5: Features after standardization (excluding Revenue feature)

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
-0.396478	-0.244931	0.051008	0.078914	-0.351917	-0.611814	0.343874	3.713114	0.352731	0.961270	0.374389	-0.061364	-0.514182	0.407786	-0.550552
-0.396478	-0.244931	-0.623548	-0.542198	0.367291	1.171473	-0.317178	-0.308821	1.196576	-1.233426	3.286094	-0.061364	-0.762629	0.407786	1.816360
-0.396478	-0.244931	-0.623548	-0.602399	-0.457683	0.142551	-0.317178	-0.308821	-1.756881	-0.136078	4.450776	-0.894178	-0.514182	0.407786	-0.550552
-0.396478	-0.244931	-0.331240	0.005655	-0.199879	-0.114679	0.718829	3.713114	0.352731	0.961270	-0.207952	-0.477771	-0.514182	0.407786	-0.550552
-0.396478	-0.244931	0.006038	-0.191838	-0.457683	-0.874301	2.627527	-0.308821	-0.069191	-0.136078	-0.207952	1.604266	-0.514182	0.407786	-0.550552

C. Feature Importance and Selection

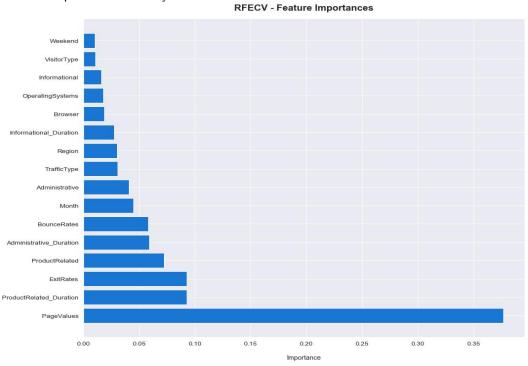
In order to obtain a clearer view of the contribution of each feature to the overall prediction and in determining which features should be dropped, a Cross Validated Recursive Feature Elimination model (RFECV) from python feature_selection module is fitted to the entire dataset (excluding the target feature 'Revenue') using a Stratified K-fold in order to check which number of features produce the best level of accuracy for modelling.

Recursive Feature Elimination with Cross-Validation



Graph 1: Potential model performance for each number of features using RFECV

The results showed that 16 features would give the higher number of model prediction accuracy. Below is chart showing the percentage of importance of each of the selected 16 features contributes to overall model prediction accuracy.



Graph 2: Feature Importance in ascending order

IV. MODELLING

A. Data Splitting and Balancing

After the data was successfully pre-processed and transformed, we feed it into our models. But before doing that two key steps were carried out:

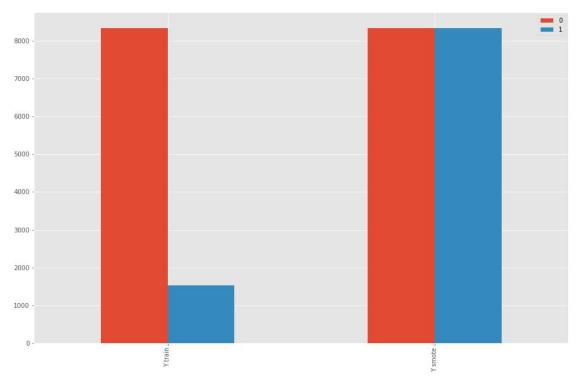
Data splitting

The data is split 80% train data and 20% using the Train-Test-Split function. The stratify parameter is also set on the target feature to ensure that the number of number of data points from each

class in the target feature is proportionally split into the train and test sets. 80% of the data was for training used so as to maximize the prediction accuracy of the models especially on the data points that end in a purchase (i.e where Revenue = 1) as the data is imbalanced having more 70% more data points that do not end in a purchase (I.e where Revenue = 0)

2. Data balancing

To finally address the issue of data imbalance, the data points in the training set where Revenue = 1 are over-sampled using the SMOTE function from the Imbalanced-Learn python library to match the number of data points where Revenue = 0. This raises the total number of data points from 9864 to 16676, where the new dataset has 8338 data samples with Revenue class of 1 and also 8338 data samples with Revenue class of 0, therefore balancing the total number of positive and negative target class labels.



Graph 3: Data samples of the Target variable before and after SMOTE balancing

B. Base Model

To set the tone for the entire modelling exercise, a base level of performance has to be set in order to judge if there is a progression in the prediction capability of each successive model. For this project, the base model that was used was a K Nearest Neighbors (KNN) Classifier⁵. This was chosen due to its simplicity as KNN models work by aggregating the predictions of the data points nearest to the query data point. K was set to 8 and fit to the training data. A lot of emphasis would be placed on F1-scores because F1-score is the parameter that shows how well our precision and recall scores balance each other. Below is the performance of the base model on the test data

Target Class	Precision	Recall	F1-score	Support
Value				
0	0.93	0.80	0.87	2084
1	0.40	0.66	0.50	382
Macro Avg	0.66	0.74	0.68	2466
Accuracy				0.79

TABLE 6: Base Model Performance

From the performance of KNN, we obtained an average F1- score of 0.68 and an overall model accuracy of 0.79 which is okay for a benchmark performance. However, the F1-score for positive data points in the target class is low at 0.50 (which is no better than a random coin toss). therefore we expect future models to perform better at predicting the positive target class by having a much better F1-score.

C. Ensemble Method Models

1. Model Bagging

The first Ensemble method that was applied is Bagging. The core idea of Bagging (Breiman, 1996c) is to combine several homogeneous weak learner models, in this case several decision trees, which are learned independently of each other and averaged together into a single prediction. The specific type of Bagging model used in this project is the Random Forests model which is the most efficient as far as Bagging models go. The model is imported from Scikit-Learn and its parameters are tuned using a cross validation process. GridSearchCV function is used for this tuning, and after the tuning is completed the model is then fit on the training data.

2. Model Boosting

The second Ensemble model tested on the training data was the Boosting Ensemble. But here instead of using the regular adaptive boosting model or any of its variants, the Extreme Gradient Boosting (XGB) algorithm was used. Extreme Gradient Boosting like other Boosting⁶ models (Freund & Schapire, 1996; Schapire, 1990) similarly uses a combination of several weak learners (decision trees), which are learned sequentially such that each tree builds upon the results of the previous one, and then it combines the prediction of each tree by using a number of hyper-parameters to ensure that no individual tree has an inordinate amount of influence on the final prediction. Here also, GridSearchCV is used to tune all the hyper-parameters to find the best combination for our provided dataset. Also very important to note here is that the parameters for maximum tree depth and number of estimators for the XGB model were set to 14 and 600 respectively to further strengthen it's performance.

3. Model Stacking

The third and final Ensemble model that was used to make predictions on the data was a stacked generalization. Unlike Bagging and Boosting, Stacking⁷ (Wolpert, 1992) can combine several heterogeneous or dissimilar weak learner models together in order to make a prediction. It also differs from them such that it does not simply average the predictions of the weak models in order to make a final prediction, rather it fits a 'meta-model' on top of them, and the job of this meta-model is to learn when it is appropriate to use each of the meta-models to make predictions on the test data. This thereby results in a combination that uses the strengths of each model and an overall model that is better than any of its individual weak models.

For this project, the stacking model was kept simple by using only two models: The cross validated XGB model from the Bagging test, and a Logistic Regression model that has been tuned using GridSearchCV. Then a simple un-tuned Logistic Regression model was fitted as the meta-model to make the final predictions. The simple Logistic Regression was chosen as a meta-model because it is usually better to have a simpler model rather than a complex one to reduce the complications of choosing a final prediction.

V. RESULTS

A. Performance Metrics

The following are the performance metrics used in evaluating and comparing the performances of each model:

- 1. Accuracy: total number of correct predictions / total number of predictions
- 2. Precision: true positive/ (true positive + false positive)
- 3. Recall: true positive/ (true positive + false negative)
- 4. Support: This refers to the number of data samples used from each class
- 5. F1-score: This refers to the ratio of the product of Precision and Recall to their sum multiplied by two. This can be expressed mathematically as:

two. This can be expressed matrix
$$F_1 = \frac{2(Precision x Recall)}{(Precision + Recall)}$$

The F1-score is very important in this project, especially the F1-score on positive class data samples since it is very important for online companies to know how to predict sessions that end up in Revenue more than they need to predict sessions that don't.

5.2 Results

TABLE 7: Bagging (Random Forest) Model Performance on Test Data

Target Class Value	Precision	Recall	F1-score	Support
0	0.94	0.92	0.93	2084
1	0.62	0.69	0.65	382
Macro Avg	0.78	0.81	0.79	2466
Accuracy				0.89

TABLE 8: Boosting (Extreme Gradient Boosting) Model Performance on Test Data

Target Class	Precision	Recall	F1-score	Support
Value				
0	0.94	0.94	0.94	2084
1	0.68	0.67	0.67	382
Macro Avg	0.81	0.81	0.81	2466
Accuracy				0.90

TABLE 9: Stacking (XGB + Logistic Regression) Model Performance on Test Data

Target Class	Precision	Recall	F1-score	Support
Value				
0	0.95	0.92	0.93	2084
1	0.61	0.73	0.67	382
Macro Avg	0.78	0.82	0.80	2466
Accuracy				0.89

TABLE 10: Stacking (XGB + Random Forest) Model Performance on Test Data

Target Class	Precision	Recall	F1-score	Support
Value				
0	0.94	0.93	0.93	2084
1	0.63	0.68	0.65	382
Macro Avg	0.78	0.80	0.79	2466
Accuracy				0.89

TABLE 11: Overall Model Performance Comparison on Test Data

Model	Avg	Avg Recall	Avg F1-score	Accuracy	Rank
	Precision				
KNN	0.66	0.74	0.68	0.79	Base
Random Forest	0.78	0.81	0.79	0.89	3rd
XGB	0.81	0.81	0.81	0.90	1st
XGB + Logistic Regression	0.78	0.82	0.80	0.89	2nd
stack					
XGB + Random Forest stack	0.78	0.80	0.79	0.89	4th

The results at the end of modelling show the following:

- 1. All ensemble models used generally performed much better than the KNN model (which was used as the benchmark for performance) on all performance metrics.
- 2. The stacking ensemble of XGB and Random Forest comes in at fourth place, performing worse as an ensemble than either of its individual base models when used alone. It had an average precision of 0.78, an average Recall of 0.80 and an overall accuracy of 0.89
- 3. In third place was the bagging ensemble method, Random Forest. It had a decent level of overall accuracy at 0.89, but ranked lowest of the three ensemble models because it had the lowest F1-score in predicting the positive Revenue label (at 0.65) and also the lowest average F1-score of the three at 0.79
- 4. In terms of accuracy and F1-score (on positive class where Revenue = 1), the stacking ensemble of XGB and Logistic Regression performed better than Random Forest but less than the boosting ensemble model, putting it comfortably in second place. It had an overall accuracy score of 0.89 and an average F1-score of 0.80, but performed better at predicting positive Revenue classes with an F1-score of 0.67.

5. Finally the Boosting model emerged as the champion, but by a slight margin as it ties with the Stacked model with an F1-score of 0.67 in predicting positive Revenue classes. Where it does shine better than the other models is on its overall accuracy which is 0.90 and its average F1 score which is 0.81

VI. RELATED WORK

In a study by Suchacka and Chodak⁸, they categorized shoppers online behaviour using web server log data and then used association rule mining on the resulting log data to obtain potential knowledge about different customer profiles. Another study used Support Vector Machines (SVM) to classify online bookstore user data into browser and buyer sessions⁹. K-nearest neighbors classifier, which is one of the models that was used in this project, has also been used on the Online shoppers' dataset to classify the user sessions into those that generate Revenue and those that do not¹⁰. Finally, Sakar et al also work on this same online shoppers' dataset but instead classify each user session by implementing multi-layer and Long Short Term Memory (LSTM) recurrent neural networks

VII. LIMITS and EXTENSIONS

The scope of this work covers only the application of Ensemble learning methods to this binary classification problem of shopping data. As was shown, this method is limited first by the fact that not enough positive data samples for Revenue were available. Also is the fact that even though GridSearchCV was used to tune each model, a lot more time to could be dedicated to tuning the hyper-parameters using dedicated python libraries like: Ray-Tune, Optuna, Hyperopt, Mlmachine, Polyaxon, BayesianOptimization, Talos, SHERPA.

Furthermore, more improvements in accuracy could be obtained by applying Neural networks and Multi-layer Perceptrons to model the data like Sakar et al¹¹ did in their paper

VIII. CONCLUSION

In conclusion, we have been able to successfully classify the test data of online shoppers' user intention into the sessions that generate revenue and the ones that do not, with an overall accuracy of 0.90. This was achieved using the ensemble boosting model called Extreme Gradient Boosting (XGB), which emerged the winner out of a collection of four different ensemble learning models. In second place was the stacking ensemble of XGB and Logistic regression which produced an overall accuracy of 0.89 and coming in close at third place was the bagging ensemble model of Random forests which also had an overall accuracy of 0.89, but lower average precision, recall and F1-score values.

Although this makes it to appear as that model boosting was the best ensemble learning method of them all, it is very important to note that an ensemble learning method's performance is highly dependent on the type of data being used. On a different data type like text data or image data, it might get outperformed by other types of ensemble models. Also, model accuracy can be improved if more positive Revenue class data samples can be obtained to balance the data instead of having to create artificial data samples using SMOTE or other oversampling techniques. Additionally, other modelling approaches like Neural networks and Deep learning have generally shown themselves to be superior to ensemble learning methods and might be a better option for real-world use case scenarios.

IX. REFERENCES

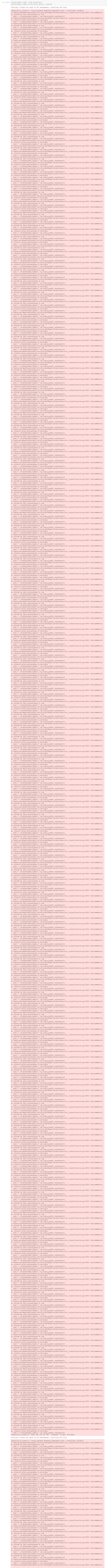
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APPENDIX Code and Experimental Results

In [2]: import numpy as np import pandas as pd import seaborn as sns import matplotlib.pyplot as plt import sklearn.metrics as metrics from numpy import mean from numpy import std from pandas import read csv from sklearn.model_selection import cross_val_score from sklearn.metrics import accuracy score from sklearn.model_selection import RepeatedStratifiedKFold from sklearn.neighbors import KNeighborsClassifier from sklearn.linear_model import LogisticRegression from xgboost import XGBClassifier from sklearn.ensemble import StackingClassifier from sklearn.svm import SVC from sklearn.model_selection import RandomizedSearchCV from sklearn.preprocessing import StandardScaler from sklearn.pipeline import Pipeline from sklearn.model_selection import train test split, GridSearchCV, StratifiedKFold from imblearn.over_sampling import RandomOverSampler, SMOTE from sklearn.model_selection import GridSearchCV from sklearn.datasets import make classification from sklearn.ensemble import RandomForestClassifier from sklearn.preprocessing import StandardScaler from sklearn.decomposition import PCA Data Pre-processing, EDA and Cleaning # importing the online shopping data file In [3]: df = pd.read csv('online shoppers intention.csv') df.head(20) Out[3]: Administrative Administrative Duration Informational Informational_Duration ProductRelated ProductRelated_Duration BounceRates 0 0 0.0 0 0.0 0.000000 0.200000 1 0 0.0 0 0.0 2 64.000000 0.000000 0.200000 0.0 0 0.0 0.000000 0 0 2 3 0.0 0.0 2.666667 0.0500000 0.0 0 0.0 10 627.500000 0.020000 5 0 0.0 0 0.0 19 154.216667 0.015789 0 0 6 0.0 0.0 0.000000 0.200000 0.0 0 0 0.000000 7 1 0.0 0.200000 0 0 2 37.000000 0.000000 8 0.0 0.0 0 9 0 0.0 0.0 3 738.000000 0.00000010 0 0.0 0 0.0 3 395.000000 0.000000 0 0 407.750000 0.0 0.0 16 0.018750 11 0 0.0 0 0.0 0.000000 12 280.500000 0 0 13 0.0 0.0 6 98.000000 0.0000000 0 2 14 0.0 0.0 68.000000 0.000000 15 2 53.0 0 0.0 23 1668.285119 0.008333 0 0.0 0 0.000000 0.200000 16 0.0 0 0 17 0.0 0.0 13 334.966667 0.000000 32.000000 18 0.0 0.0 0.000000 0 0 20 0.000000 19 0.0 0.0 2981.166667 In [4]: | df.shape Out[4]: (12330, 18) In [5]: # defining a function to carry out exploratory data analysis on the null, unique, duplicate and missing values in the data def info(data_fr): for col in data fr.columns: print(col ,'value_counts: ',data_fr[col].value_counts()) print(col ,'total values: ',len(data_fr[col])) print(col ,'null values: ',data_fr[col].isna().sum()) print(col ,'non-null values: ',data_fr[col].notnull().sum()) print('is unique: ', data_fr[col].nunique()/len(data_fr[col])) print(col ,'duplicate values: ', (len(data_fr[col]) - data_fr[col].nunique())) print('\n') In [7]: info(df) Administrative value_counts: 0 5768 1354 2 1114 3 915 765 4 5 575 6 432 7 338 8 287 9 225 10 153 105 11 12 86 13 56 14 44 15 38 16 24 17 16 18 12 19 6 24 4 22 4 23 3 20 2 21 2 26 1 27 1 Name: Administrative, dtype: int64 Administrative total values: 12330 Administrative null values: 0 Administrative non-null values: 12330 is unique: 0.0021897810218978104 Administrative duplicate values: 12303 Administrative_Duration value_counts: 0.000000 5903 4.000000 56 5.000000 53 7.000000 45 11.000000 42 294.070513 90.875000 1 97.333333 1 53.166667 1 247.083333 1 Name: Administrative Duration, Length: 3335, dtype: int64 Administrative Duration total values: 12330 Administrative Duration null values: 0 Administrative Duration non-null values: 12330 is unique: 0.2704785077047851 Administrative_Duration duplicate values: 8995 Informational value counts: 0 1041 1 2 728 3 380 4 222 5 99 78 6 7 9 15 14 8 7 10 12 2 14 1 11 1 13 24 1 16 1 Name: Informational, dtype: int64 Informational total values: 12330 Informational null values: 0 Informational non-null values: 12330 is unique: 0.00137875101378751 Informational duplicate values: 12313 Informational Duration value counts: 0.0 9925 9.0 33 6.0 26 10.0 26 7.0 26 291.5 43.2 1 1 338.4 86.6 1 145.6 Name: Informational_Duration, Length: 1258, dtype: int64 Informational_Duration total values: 12330 Informational Duration null values: 0 Informational Duration non-null values: 12330 is unique: 0.10202757502027575 Informational_Duration duplicate values: 11072 ProductRelated value_counts: 1 622 465 3 458 4 404 396 377 1 385 292 1 409 1 339 Name: ProductRelated, Length: 311, dtype: int64 ProductRelated total values: 12330 ProductRelated null values: 0 ProductRelated non-null values: 12330 is unique: 0.025223033252230333 ProductRelated duplicate values: 12019 ProductRelated Duration value counts: 0.000000 17.000000 21 8.000000 17 11.000000 17 15.000000 6560.007540 821.893333 2004.500000 266.500000 1 1919.550000 1 Name: ProductRelated Duration, Length: 9551, dtype: int64 ProductRelated Duration total values: 12330 ProductRelated_Duration null values: 0 ProductRelated_Duration non-null values: 12330 is unique: 0.7746147607461477 ProductRelated_Duration duplicate values: 2779 BounceRates value counts: 0.000000 5518 0.200000 700 0.066667 134 115 0.028571 113 0.050000 0.023457 1 0.003901 1 0.005074 1 0.016735 1 0.007356 1 Name: BounceRates, Length: 1872, dtype: int64 BounceRates total values: 12330 BounceRates null values: 0 BounceRates non-null values: 12330 is unique: 0.15182481751824817 BounceRates duplicate values: 10458 ExitRates value_counts: 0.200000 710 0.100000 338 0.050000 329 0.033333 291 0.066667 267 0.025325 1 0.020586 1 1 0.084444 0.055882 1 0.010710 Name: ExitRates, Length: 4777, dtype: int64 ExitRates total values: 12330 ExitRates null values: 0 ExitRates non-null values: 12330 is unique: 0.38742903487429037 ExitRates duplicate values: 7553 PageValues value_counts: 0.000000 9600 53.988000 6 3 42.293068 40.278152 12.558857 2 1 1 1.625051 20.157102 8.191923 1 1 12.587222 30.203577 1 Name: PageValues, Length: 2704, dtype: int64 PageValues total values: 12330 PageValues null values: 0 PageValues non-null values: 12330 is unique: 0.21930251419302516 PageValues duplicate values: 9626 SpecialDay value_counts: 0.0 0.6 351 0.8 325 0.4 243 0.2 178 1.0 154 Name: SpecialDay, dtype: int64 SpecialDay total values: 12330 SpecialDay null values: 0 SpecialDay non-null values: 12330 is unique: 0.00048661800486618007 SpecialDay duplicate values: 12324 Month value_counts: May 3364 2998 Nov 1907 Mar Dec 1727 Oct 549 Sep 448 Aug 433 Jul 432 June 288 Feb 184 Name: Month, dtype: int64 Month total values: 12330 Month null values: 0 Month non-null values: 12330 is unique: 0.0008110300081103001 Month duplicate values: 12320 OperatingSystems value_counts: 2 6601 1 2585 3 2555 4 478 8 79 6 19 7 7 6 Name: OperatingSystems, dtype: int64 OperatingSystems total values: 12330 OperatingSystems null values: 0 OperatingSystems non-null values: is unique: 0.0006488240064882401 OperatingSystems duplicate values: 12322 Browser value counts: 2 7961 2462 4 736 5 467 6 174 10 163 8 135 3 105 13 61 7 49 12 10 11 6 1 Name: Browser, dtype: int64 Browser total values: 12330 Browser null values: 0 Browser non-null values: 12330 is unique: 0.00105433901054339 Browser duplicate values: 12317 Region value counts: 1 3 2403 4 1182 2 1136 6 805 7 761 9 511 8 434 5 318 Name: Region, dtype: int64 Region total values: 12330 Region null values: 0 Region non-null values: 12330 is unique: 0.00072992700729927 Region duplicate values: 12321 TrafficType value counts: 2 3 2052 4 1069 738 13 10 450 6 444 8 343 5 260 11 247 20 198 9 42 7 40 38 15 19 17 13 14 10 18 16 3 12 1 17 1 Name: TrafficType, dtype: int64 TrafficType total values: 12330 TrafficType null values: 0 TrafficType non-null values: 12330 is unique: 0.0016220600162206002 TrafficType duplicate values: 12310 VisitorType value_counts: Returning_Visitor New_Visitor 1694 Other Name: VisitorType, dtype: int64 VisitorType total values: 12330 VisitorType null values: 0 VisitorType non-null values: 12330 is unique: 0.00024330900243309004 VisitorType duplicate values: 12327 Weekend value_counts: False 9462 True 2868 Name: Weekend, dtype: int64 Weekend total values: 12330 Weekend null values: 0 Weekend non-null values: 12330 is unique: 0.00016220600162206002 Weekend duplicate values: 12328 Revenue value_counts: False 10422 True 1908 Name: Revenue, dtype: int64 Revenue total values: 12330 Revenue null values: 0 Revenue non-null values: 12330 is unique: 0.00016220600162206002 Revenue duplicate values: 12328 In [6]: #dropping any row with missing values df = df.dropna() df.shape df.columns Out[6]: Index(['Administrative', 'Administrative_Duration', 'Informational', 'Informational_Duration', 'ProductRelated', 'ProductRelated_Duration', 'BounceRates', 'ExitRates', 'PageValues', 'SpecialDay', 'Month', 'OperatingSystems', 'Browser', 'Region', 'TrafficType', 'VisitorType', 'Weekend', 'Revenue'], dtype='object') In [7]: #using label encoder to encode all categorical input feature from sklearn.preprocessing import LabelEncoder label enc = LabelEncoder() for feature in ['SpecialDay', 'Month', 'OperatingSystems', 'Browser', 'Region', 'TrafficType', 'Visitor Type', 'Weekend', 'Revenue']: df[feature] = label_enc.fit_transform(df[feature]) df.head(5)Out[7]: Administrative Administrative_Duration Informational Informational_Duration ProductRelated ProductRelated_Duration BounceRates E 0.0 0.000000 0.0 0.20 0 2 1 0.0 0 0.0 64.000000 0.00 2 0 0.0 0.0 0.000000 0.20 3 0 0 2 0.05 0.0 0.0 2.666667 0 0.0 10 627.500000 0.02 0.0 In [8]: #make every column a float, but keeping revenue as a bool df = df.astype(float) df['Revenue'] = df['Revenue'].astype(int) df.dtypes df.head(5)Out[8]: Administrative Administrative_Duration Informational Informational_Duration ProductRelated ProductRelated_Duration BounceRates I 0 0.0 0.0 0.0 0.0 1.0 0.000000 0.20 0.0 0.0 0.0 64.000000 1 0.0 2.0 0.00 2 0.0 0.0 0.0 0.0 0.000000 0.20 1.0 3 0.0 0.0 0.0 0.0 2.0 2.666667 0.05 0.0 0.0 0.0 0.0 10.0 627.500000 0.02 **Feature Scaling** In [113]: #In general it is a good idea to scale the data scaler = StandardScaler() scaler.fit(X) X = scaler.transform(X)#train test split In [9]: X, y = df.drop(['Revenue'], axis=1), df['Revenue'] #In general it is a good idea to scale the data scaler = StandardScaler() scaler.fit(X) X = scaler.transform(X)X train, X test, y train, y test = train test split(X, y, test size=0.2, random state=42, stratify=y) X train.shape Out[9]: (9864, 17) **Feature Selection** In [18]: # putting X train into a dataframe for rfecv evaluation X df = pd.DataFrame(X train) X df.head() Out[18]: 0 2 7 10 3 5 11 0.051008 3.685152 -0.396478 -0.244931 -0.351917 -0.611814 0.343874 3.713114 0.352731 0.961270 **0** 1.711449 0.078914 0.37 **1** -0.696993 -0.457191 -0.396478 -0.244931 -0.623548 -0.542198 0.367291 1.171473 -0.317178 -0.308821 1.196576 -1.233426 3.28 -0.602399 0.142551 -0.317178 -0.308821 -1.756881 -0.136078 **2** -0.696993 -0.457191 -0.396478 -0.244931 -0.623548 -0.457683 4.45 **3** -0.094882 1.454877 -0.396478 -0.244931 -0.331240 0.005655 -0.199879 -0.114679 0.718829 0.961270 -0.20 3.713114 0.352731 **4** -0.696993 -0.457191 -0.396478 -0.244931 0.006038 -0.191838 -0.457683 -0.874301 2.627527 -0.308821 -0.069191 -0.136078 -0.20 In [160]: from sklearn.model_selection import StratifiedKFold from sklearn.feature_selection import RFECV rfc = RandomForestClassifier(random state=101) rfecv = RFECV(estimator=rfc, step=1, cv=StratifiedKFold(10), scoring='accuracy') rfecv.fit(X, y) Out[160]: RFECV(cv=StratifiedKFold(n splits=10, random state=None, shuffle=False), estimator=RandomForestClassifier(random state=101), scoring='accuracy') In [161]: # plotting the rfecv chart for feature selection plt.figure(figsize=(16, 9)) plt.title('Recursive Feature Elimination with Cross-Validation', fontsize=18, fontweight='bold', pad=2 plt.xlabel('Number of features selected', fontsize=14, labelpad=20) plt.ylabel('% Correct Classification', fontsize=14, labelpad=20) plt.plot(range(1, len(rfecv.grid scores) + 1), rfecv.grid scores, color='#303F9F', linewidth=3) plt.show() Recursive Feature Elimination with Cross-Validation 0.89 % Correct Classification 0.88 0.87 0.86 Number of features selected In [164]: | df_x = pd.DataFrame(X, columns = ['Administrative', 'Administrative_Duration', 'Informational', 'Informational Duration', 'ProductRelated', 'ProductRelated Duration', 'BounceRates', 'ExitRates', 'PageValues', 'SpecialDay', 'Month', 'OperatingSystems', 'Browser', 'Region', 'TrafficType', 'VisitorType', 'Weekend']) print(np.where(rfecv.support_ == False)[0]) df_x.drop(df_x.columns[np.where(rfecv.support_ == False)[0]], axis=1, inplace=True) [9] In [165]: | # plotting a bargraph of each selected feature according to their importance dset = pd.DataFrame() dset['attr'] = df_x.columns dset['importance'] = rfecv.estimator_.feature_importances_ dset = dset.sort_values(by='importance', ascending=False) plt.figure(figsize=(16, 14)) plt.barh(y=dset['attr'], width=dset['importance'], color='#1976D2') plt.title('RFECV - Feature Importances', fontsize=20, fontweight='bold', pad=20) plt.xlabel('Importance', fontsize=14, labelpad=20) plt.show() RFECV - Feature Importances Weekend VisitorType Informational OperatingSystems Browser Informational_Duration Region TrafficType Administrative Month BounceRates Administrative_Duration ProductRelated ExitRates ProductRelated_Duration PageValues 0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35 Importance **Data Oversampling with SMOTE** In [167]: # splitting the dataset beofore applying smote oversampling X train, X test, y train, y test = train test split(df x, y, test size=0.2, random state=42, stratify= A) X_train.shape Out[167]: (9864, 16) #applying smote oversampling to address data imbalance In [10]: smote = SMOTE(random_state=1, k_neighbors=6) X_train_smote, y_smote = smote.fit_resample(X_train, y_train) print(X_train_smote.shape) (16676, 17)#converting y train to a dataframe for plotting In [24]: y df = pd.DataFrame(y train) print(y df["Revenue"].value counts()) 8338 1 1526 Name: Revenue, dtype: int64 In [23]: #converting y smote to a dataframe for plotting y sdf = pd.DataFrame(y smote) print(y sdf["Revenue"].value counts()) 1 8338 8338 Name: Revenue, dtype: int64 In [31]: # plotting the dataset before and after smote oversampling import matplotlib.pyplot as plt from matplotlib import style import seaborn as sns y dict = {'Y train': [8338, 1526], 'Y smote': [8338, 8338]} y comb = pd.DataFrame(data=y dict) print(y comb) # plotting the rss values of each feature on the train and test data side by side as a multiple bargrap style.use('ggplot') y comb.T.plot(kind='bar', figsize=(15,10)) Y train Y smote 0 8338 8338 1 1526 8338 Out[31]: <matplotlib.axes. subplots.AxesSubplot at 0x1ae6abd4708> 8000 7000 6000 5000 4000 3000 2000 1000 0 Modelling Base Model - KNN In [178]: # creating a KNN model knn = KNeighborsClassifier(n_neighbors = 8) knn.fit(X_train_smote, y_smote) Out[178]: KNeighborsClassifier(n_neighbors=8) In [179]: # checking the accuracy, precision, recall and f1-score of the KNN model y_pred_knn = knn.predict(X_test) print (accuracy_score(y_test, y_pred_knn)) print(metrics.classification_report(y_test, y_pred_knn)) 0.7923763179237632 precision recall f1-score support 0.93 0.82 0.87 0.40 0.66 0.50 2084 1 382 0.79 2466 2466 2466 accuracy macro avg 0.66 0.74 ighted avg 0.85 0.79 0.68 0.81 2466 weighted avg **Model Bagging - Random Forest** In [135]: #Random Forest model rfc = RandomForestClassifier(n_jobs=-1, max_features= 'sqrt' ,n_estimators=50, oob_score = True) param_grid_rf = { 'n_estimators': [200, 700], 'max_features': ['auto', 'sqrt', 'log2'] rf_stack = GridSearchCV(estimator=rfc, param_grid=param_grid_rf, cv= 5) rf_stack.fit(X_train_smote, y_smote) Out[135]: GridSearchCV(cv=5, estimator=RandomForestClassifier(max_features='sqrt', n_estimators=50, n_jobs=-1, oob_score=True), param_grid={'max_features': ['auto', 'sqrt', 'log2'] 'n_estimators': [200, 700]}) In [136]: | # checking the accuracy, precision, recall and f1-score of the Random forest model and y_pred = rf_stack.predict(X_test) print (accuracy_score(y_test, y_pred)) print(metrics.classification_report(y_test, y_pred)) 0.8856447688564477 precision recall f1-score support 0.94 0.92 0.93 2084 0.62 0.69 0.65 382 accuracy 0.89 2466 macro avg 0.78 0.81 weighted avg 0.89 0.89 0.79 2466 0.89 2466 **Model Boosting - XGB**

(<pre>loss = -(transformed_labels * np.log(y_pred)).sum(axis=1) C:\Users\akinmade\Anaconda3\lib\site-packages\sklearn\metrics_classification.py:2240: g: invalid value encountered in multiply loss = -(transformed_labels * np.log(y_pred)).sum(axis=1) C:\Users\akinmade\Anaconda3\lib\site-packages\sklearn\metrics_classification.py:2240: g: divide by zero encountered in log loss = -(transformed_labels * np.log(y_pred)).sum(axis=1) C:\Users\akinmade\Anaconda3\lib\site-packages\sklearn\metrics_classification.py:2240: g: invalid value encountered in multiply loss = -(transformed_labels * np.log(y_pred)).sum(axis=1) C:\Users\akinmade\Anaconda3\lib\site-packages\sklearn\metrics_classification.py:2240: g: divide by zero encountered in log loss = -(transformed_labels * np.log(y_pred)).sum(axis=1)</pre>	RuntimeWa RuntimeWa
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[Parallel(n jobs=1)]: Done 245 out of 245 | elapsed: 8.5min finished
Fitting 5 folds for each of 49 candidates, totalling 245 fits
[Parallel(n jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
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[Parallel(n_jobs=1)]: Done 245 out of 245 | elapsed: 10.1min finished
Fitting 5 folds for each of 49 candidates, totalling 245 fits
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
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[Parallel(n_jobs=1)]: Done 245 out of 245 | elapsed: 9.6min finished
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[Parallel(n jobs=1)]: Done 245 out of 245 | elapsed: 8.8min finished
Fitting 5 folds for each of 49 candidates, totalling 245 fits
[Parallel(n_jobs=1)]: Using backend SequentialBackend with 1 concurrent workers.
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