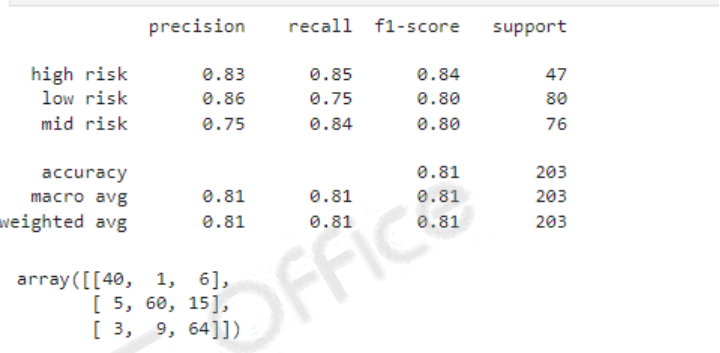
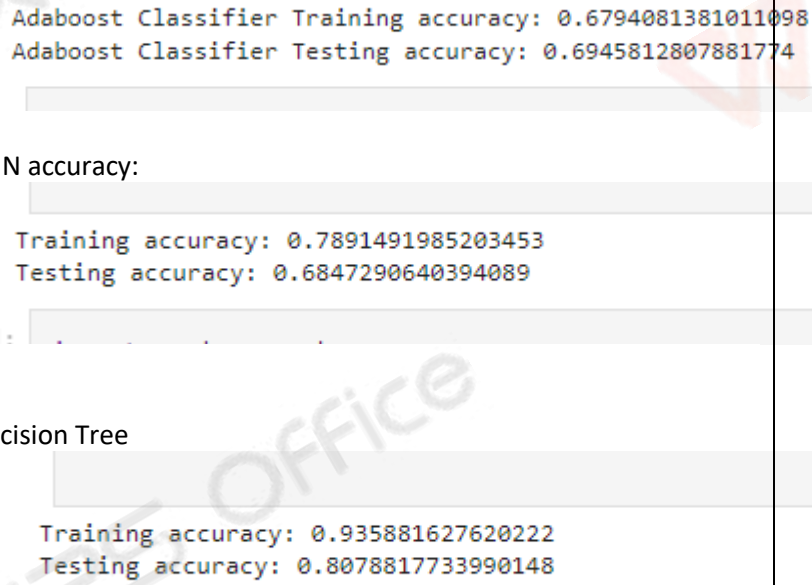


Project Development Phase

Date	24 May2023
Team ID	NM2023TMID05792
Project Name	AuditAI-A machine learning for detecting fraud in Audit data

Model Performance Testing-2 Machine Learning

S.N o.	Parameter	Values	Screenshot
	<ul style="list-style-type: none"> Metric s 	Regression Model: LASSO,LGA,RF,SMOTE,STATA Classification Model: KNN,SVM,CNN,RNN,NAive bayes,ABC,BC,decision Tree	 <pre> precision recall f1-score support high risk 0.83 0.85 0.84 47 low risk 0.86 0.75 0.80 80 mid risk 0.75 0.84 0.80 76 accuracy 0.81 203 macro avg 0.81 0.81 0.81 203 weighted avg 0.81 0.81 0.81 203 5]: array([[40, 1, 6], [5, 60, 15], [3, 9, 64]]) </pre>
	<ul style="list-style-type: none"> Tune the Model 	Hyperparameter Tuning - Adjust the hyperparameters of your model to make it more precise. You can efficiently investigate various hyperparameter combinations using techniques like grid search or random search. In this procedure, cross-validation can offer a more reliable estimation of model performance. Validation Method - Utilize the right	 <pre> Adaboost Classifier Training accuracy: 0.6794081381011098 Adaboost Classifier Testing accuracy: 0.6945812807881774 KNN accuracy: Training accuracy: 0.7891491985203453 Testing accuracy: 0.6847290640394089 Decision Tree Training accuracy: 0.935881627620222 Testing accuracy: 0.8078817733990148 </pre>

		<p>evaluation criteria for regression tasks to assess the performance of the trained model. Mean squared error (MSE), mean absolute error (MAE), root mean squared error (RMSE), and R-squared are examples of common metrics. Check to check if the model generalizes adequately to new data and achieves the necessary performance criteria.</p>	
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