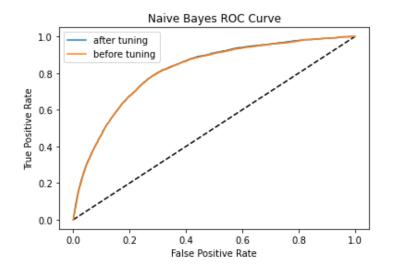
Heart Disease Model Metrics: Using Prediction for Prevention

Best Performing Model: Naive Bayes with Recall = 70%, ROC AUC = 82%

Best Hyperparameter: var_smoothing = 0.0029



	Time	Recall Score
0	before Tuning	0.696073
1	after Tuning	0.699726

	Data Used	Recall Score	ROC AUC Score
0	Training Data	0.697689	0.816630
1	Test Data	0.699726	0.816876

Naive Bayes confusion matrix [[45757 12727]

[1644 3831]]

Naive Bayes classification report

	recall	f1-score	support
0.97	0.78	0.86	58484
0.23	0.70	0.35	5475
		0.78	63959
0.60 0.90	0.74 0.78	0.61 0.82	63959 63959
	0.23	0.23 0.70 0.60 0.74	0.23 0.70 0.35 0.78 0.60 0.74 0.61

Naive Bayes ROC AUC score: 0.8168761280062861 Naive Bayes Accuracy: 0.7753091824450038 Naive Bayes f1-score: 0.8200617557164458 Naive Bayes Recall score: 0.6997260273972603