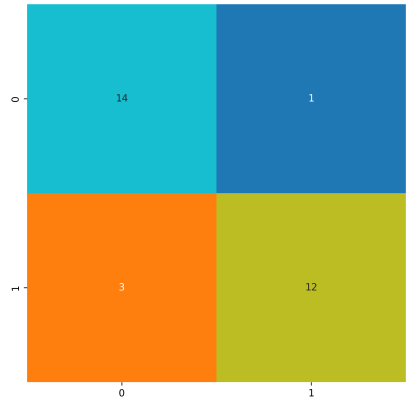
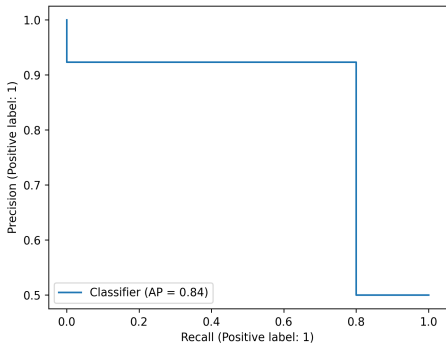
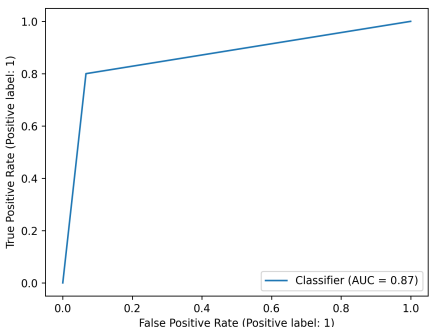


MODEL PERFORMANCE TESTING

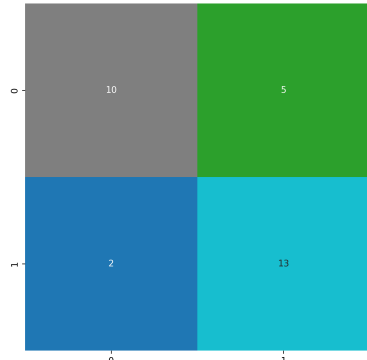
Date	10 November 2022
Team ID	PNT2022TMID35637
Project Name	Detecting Parkinsons' Disease Using Machine Learning
Maximum Marks	10 Marks

SPIRAL MODEL - RANDOM FOREST CLASSIFIER

S.No.	Parameter	Value									
1	Accuracy	86.667%									
2	Recall	80%									
3	Precision	92.308%									
4	Specificity	82.353%									
5	F1 Score	85.714%									
6	ROC AUC Score	86.667%									
7	Confusion Matrix	 <p>A confusion matrix visualization for two classes, 0 and 1. The matrix is a 2x2 grid of colored squares. The top row represents the actual class 0, with a cyan square (14) for predicted 0 and a blue square (1) for predicted 1. The bottom row represents the actual class 1, with an orange square (3) for predicted 0 and a green square (12) for predicted 1. The axes are labeled 0 and 1.</p> <table border="1"><thead><tr><th></th><th>Actual 0</th><th>Actual 1</th></tr></thead><tbody><tr><th>Predicted 0</th><td>14</td><td>3</td></tr><tr><th>Predicted 1</th><td>1</td><td>12</td></tr></tbody></table>		Actual 0	Actual 1	Predicted 0	14	3	Predicted 1	1	12
	Actual 0	Actual 1									
Predicted 0	14	3									
Predicted 1	1	12									

8	Precision-Recall Curve	
9	ROC Curve	

WAVE MODEL - K-NEIGHBOR CLASSIFIER

S.No.	Parameter	Value
1	Accuracy	76.667%
2	Recall	86.667%
3	Precision	72.222%
4	Specificity	83.333%
5	F1 Score	78.788%
6	ROC AUC Score	76.667%
7	Confusion Matrix	

8	Precision-Recall Curve	<p>Precision (Positive label: 1)</p> <p>Recall (Positive label: 1)</p> <p>Classifier (AP = 0.69)</p>
9	ROC Curve	<p>True Positive Rate (Positive label: 1)</p> <p>False Positive Rate (Positive label: 1)</p> <p>Classifier (AUC = 0.77)</p>

VOICE MODEL - SNAP BOOSTING MACHINE CLASSIFIER (AUTO AI)

S. No	Parameter	Value
1	Accuracy	92.6%
2	Precision	94.2%
3	Recall	96.2%
4	F1 Score	95.2%
5	ROC AUC Score	94.2%