

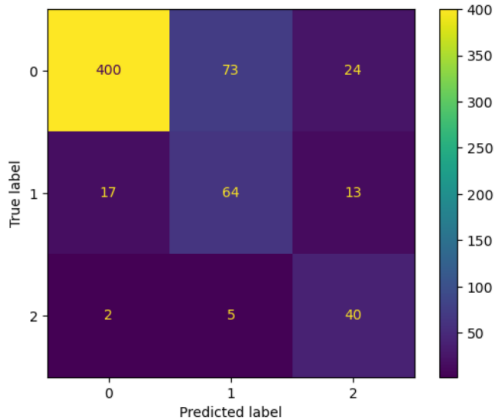
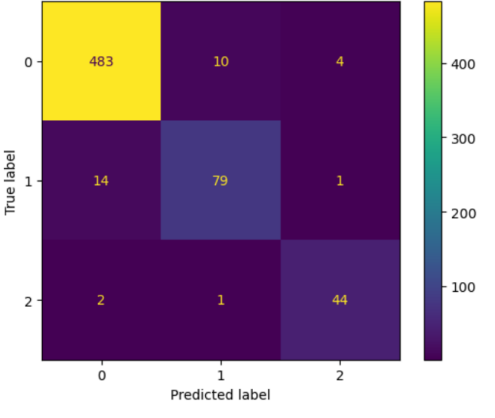
Project Development Phase

Model Performance Test

Date	17 th November 2023
Team ID	SI-GuidedProject-610171-1701658790
Project Name	FetalAI: Using Machine Learning to predict and monitor Fetal Health
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot																
1	Metrics	Classification Model: Accuracy for KNN -0.90	<table border="1"> <caption>Confusion Matrix for KNN</caption> <thead> <tr> <th>True \ Predicted</th> <th>0</th> <th>1</th> <th>2</th> </tr> </thead> <tbody> <tr> <th>0</th> <td>449</td> <td>35</td> <td>13</td> </tr> <tr> <th>1</th> <td>9</td> <td>82</td> <td>3</td> </tr> <tr> <th>2</th> <td>1</td> <td>2</td> <td>44</td> </tr> </tbody> </table>	True \ Predicted	0	1	2	0	449	35	13	1	9	82	3	2	1	2	44
True \ Predicted	0	1	2																
0	449	35	13																
1	9	82	3																
2	1	2	44																
		Accuracy for Decision Tree classifier -0.94	<table border="1"> <caption>Confusion Matrix for Decision Tree</caption> <thead> <tr> <th>True \ Predicted</th> <th>0</th> <th>1</th> <th>2</th> </tr> </thead> <tbody> <tr> <th>0</th> <td>480</td> <td>12</td> <td>5</td> </tr> <tr> <th>1</th> <td>11</td> <td>80</td> <td>3</td> </tr> <tr> <th>2</th> <td>5</td> <td>2</td> <td>40</td> </tr> </tbody> </table>	True \ Predicted	0	1	2	0	480	12	5	1	11	80	3	2	5	2	40
True \ Predicted	0	1	2																
0	480	12	5																
1	11	80	3																
2	5	2	40																

		Accuracy of Logistic regression -0.78																
		Accuracy of Random Forest Classifier-0.94																
2	Score	<div>Random Forest Classifier-0.94</div> <div>Logistic Regression-0.78</div> <div>Decision Tree Classifier-0.92</div> <div>K Neighbors Classifier-0.88</div>	<table><thead><tr><th></th><th>name</th><th>score</th></tr></thead><tbody><tr><td>0</td><td>Random Forest Classifier</td><td>0.948275</td></tr><tr><td>1</td><td>Decision Tree Classifier</td><td>0.926332</td></tr><tr><td>2</td><td>Logistic Regression</td><td>0.782131</td></tr><tr><td>3</td><td>K Neighbors Classifier</td><td>0.884012</td></tr></tbody></table>		name	score	0	Random Forest Classifier	0.948275	1	Decision Tree Classifier	0.926332	2	Logistic Regression	0.782131	3	K Neighbors Classifier	0.884012
	name	score																
0	Random Forest Classifier	0.948275																
1	Decision Tree Classifier	0.926332																
2	Logistic Regression	0.782131																
3	K Neighbors Classifier	0.884012																