Project Development Phase Model Performance Test

Date	9 November 2023
Team ID	Team-592006
Project Name	FetalAI: USING MACHINE LEARNING TO PREDICT AND MONITOR FETAL HEALTH
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot		
1.	Model Summary	-	Resolve from Alexan assemble inport SandariorestClassifier and Life Anderdown assemble inport SandariorestClassifier and Life Anderdown assClassifier(criticaline activity) a satisfactors18; ander state(0) a (10) math, of filts_trial, waste, astronomers benchmarkerClassifier (criteriore active; a, astisfactors18, family_tasted) sandariorestClassifier (criteriore active; a, astisfactors18, family_tasted)		
2.	Accuracy	Training Accuracy - 0.99712 Validation Accuracy - 0.91849	<pre>print('Testing_accuracy=',accuracy_score(y_test,y_pred_rf)) print('Training_accuracy=',accuracy_score(y_train_saots,y_pred_rf_train)) insting_accuracy=',accuracy_accuracy_train_saots,y_pred_rf_train) insting_accuracy=',accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accuracy_accu</pre>		
3.	Confidence Score (Only Yolo Projects)	Class Detected - Confidence Score -			

Model Summary:

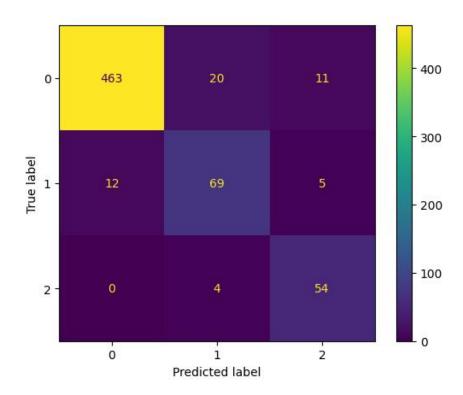


Training and Testing Accuracy:

```
[186] print('Testing_accuracy= ',accuracy_score(y_test,y_pred_rf))
    print('Training_accuracy= ',accuracy_score(y_train_smote,y_pred_rf_train))

Testing_accuracy= 0.9184952978056427
    Training_accuracy= 0.997128911857594
```

Confusion Matrix:



Classification Report:

<pre> [191] print(classification_report(y_test,y_pred_rf))</pre>									
=		precision	recall	f1-score	support				
	1.0	0.97	0.94	0.96	494				
	2.0	0.74	0.80	0.77	86				
	3.0	0.77	0.93	0.84	58				
accui	racy			0.92	638				
macro	avg	0.83	0.89	0.86	638				
weighted	avg	0.92	0.92	0.92	638				