Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID36186	
Project Name	Project -	
	Statistical Machine Learning Approaches to	
	Liver	
	Disease Prediction	
Maximum Marks	10 Marks	

Model Performance Testing:

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

Syno d.	Parameter	Values	Screenshot
1.	Metrics	Regression Model: SVM – 0.7606837606837606, KNN -0.6495726495726496, KNN ACCURACY- 0.6495046495726496,	ATTACHED BELOW
		Classification Model: Confusion Matrix — array([[77,22],[12,6]] Accuracy Score- 0.6495046495726496 & Classification Report — refer screenshot	
2.	Tune the Model	Hyper parameter Tuning - Validation Method -	ATTACHED BELOW

1. METRICS:

Model Evaluation: ACCURACY SCORE OF SVM

```
# Checking for accuracy score from actual data and predicted data

SVMaccuracy=accuracy_score(SVMpred, ytest)

SVMaccuracy

0.7606837606837606
```

ACCURACY SCORE OF RANDOM FOREST CLASSIFICATION:

ACCURACY_SCORE OF KNN CL ASSIFICATION: