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PERFORMANCE TESTING

Model Performance Testing:

S.No.	Parameter	Values	Screenshot																														
1.	Metrics	Classification Model: Confusion Matrix - Accuracy Score	<pre>from sklearn.metrics import confusion_matrix, accuracy_score confusion_matrix(y_test, RFmodel.predict(X_test)) array([[41, 4], [7, 7]]) print(f"RF :{round(accuracy_score(y_test, RFmodel.predict(X_test))*100,2)}") RF :81.36 import pickle pickle.dump(RFmodel, open('liver.pkl', 'wb'))</pre>																														
2.	Tune the Model	Hyperparameter Tuning – 0.83 Validation Method – k-fold	<pre>Accuracy: 0.8389830508474576 [[92 22] [16 106]]</pre> <table><thead><tr><th></th><th>precision</th><th>recall</th><th>f1-score</th><th>support</th></tr></thead><tbody><tr><td>1</td><td>0.85</td><td>0.81</td><td>0.83</td><td>114</td></tr><tr><td>2</td><td>0.83</td><td>0.87</td><td>0.85</td><td>122</td></tr><tr><td>accuracy</td><td></td><td></td><td>0.84</td><td>236</td></tr><tr><td>macro avg</td><td>0.84</td><td>0.84</td><td>0.84</td><td>236</td></tr><tr><td>weighted avg</td><td>0.84</td><td>0.84</td><td>0.84</td><td>236</td></tr></tbody></table>		precision	recall	f1-score	support	1	0.85	0.81	0.83	114	2	0.83	0.87	0.85	122	accuracy			0.84	236	macro avg	0.84	0.84	0.84	236	weighted avg	0.84	0.84	0.84	236
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