S. No	Parameters	Preprocessing	Model Config	Train RMSE	Train R2	Test RMSE	Test R2	Test Prediction
1	Ax, Ay, Gx,Gy,Gz	Min Max Scaler, Outlier Removal	128LSTM	27	0.92	110	-0.030	Actual vs Predicted Values for Test Data Actual Vs Predicted Values for Test Dat
2	Ax, Ay, Gx, Gy, Gz	Standard Scaler	64 Conv1D, 128LSTM, 64 LSTM, 64 Neurons, 16 Neurons	49	0.90	117.655	0.435	Actual vs Predicted Values for Test Data 1.5 1.0 0.5 -0.5 -1.0 Actual Predicted 0 5 10 15 7ime 20 25 30

3	Ax, Ay, Gx, Gy, Gz	Standard Scaler	64 Conv1D, 128 LSTM, 50 Neurons	48	0.90	111.111	0.480	Actual vs Predicted Values for Test Data 1.5 1.0 0.5 -0.5 -1.0 -1.5
4	Gx, Gy, Gz	Standard Scaler	64 Conv1D, 128 LSTM, 50 Neurons	65	0.90	154	0.484	Actual Predicted
E	Av. Av.	Standard	64 Conv1D	0.206	0.996	0.522	0.200	-200 - 5 10 13 20 25 30 Actual vs Predicted Values for Test Data
5	Ax, Ay	Standard Scaler	64 Conv1D, 128 LSTM, 50 Neurons	0.206	0.886	0.522	0.289	1.5

6.	Ax, Ay, Gx,	StandardScaler	64 Conv1D,	48	0.902	113	0.45	Actual vs Predicted Values for Test Data
0.	Gy, Gz, Magnitude	StandardScarci	128 LSTM, 50 Neurons	40	0.302	113	0.43	15- 10- 051.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1.5 -1
7	Ax, Ay, Gx,	Outlier	64 Conv1D,	28	0.92	100	0.059	Actual vs Predicted Values for Test Data
	Gy, Gz	Removal, MinMax Scaler	128 LSTM, 50 Neurons					1.0 - Redicted 0.8