

LIST OF TABLES

2.1	Specification of IMU sensor (WT61PCTTL).	15
2.2	Threshold values and parameters for fall detection using IMU sensor data.	16
3.1	Participant characteristics.	33
3.2	Confusion Matrix - TP, TN, FP, FN	35
4.1	Confusion Matrix for SVM (True Positive, False Positive, True Negative, False Negative)	39
4.2	Confusion Matrix for Random Forest (True Positive, False Positive, True Negative, False Negative)	40
4.3	Confusion Matrix for CNN (True Positive, False Positive, True Negative, False Negative)	42
4.4	Confusion Matrix for ANN (True Positive, False Positive, True Negative, False Negative)	44
4.5	Performance Comparison of Machine Learning Models for Fall Detection	45
4.6	Threshold values for Fall Types (Front, Back, Side) with exact values for linear acceleration, angular velocity, tilt angle (X, Y, Z). . . .	45