Assignment 5 ML

- 1. Number of Samples in Training Data Set 6000
- 2. Total Time of the Training Data Set 50 minutes
- 3. Size of the window in time 0.5 second
- 4. Features Selected accel_x, accel_y, accel_z were used directly as very high accuracy was observed on test data even without significant feature engineering.
- Parameters of the learned model Svm_type c_svc, kernel_type rbf, gamma 0.333333, rho -6.70223
- 6. Number of Samples in Evaluation Data Set 2796
- 7. Total Time of the Evaluation Data Set 20 minutes
- 8. Confusion matrix -

Actual	Walking	Stationary
Predicted		
Walking	1605	7
Stationary	30	1154

- 9. Accuracy 98.67 %
- 10. For Walking -

Precision-99.56 %

Recall - 98.16 %

F1 Score - 98.86 %

10. For Stationary -

Precision- 97.46 %

Recall - 99.39 %

F1 Score - 98.42 %