First iteration

The top 3-time segments were 8.9, 7and 6.4 seconds which were decided with the method described in sub-chaper activity classfication in chapter method. Each time-segment was che

The number of trees, accuracy, precision(micro), recall(micro) for each time segment for the validation dataset is in the table 1. In the table 2 the results of k-fold cross-validation scrores are described. In the table 3 the results of test dataset are described.

Based on the experiments with the segment size as describe in {} it was concluded that with this dataset 6.4, 8.9 and 7.0 seconds gave the best result. For each segment size number of trees was decided with experiment as described in {}. The number of trees and accuracy, precision and recall of each segment are described in table of the validation dataset . In table {} the k-fold cross-validation scores are described. And in the table {} the accuracy, precision and recall for each segment are described which were from test dataset.

Segment size	Number of trees	Accuracy	Precision(micro)	Recall(micro)
8.9	77	0.94	0.94	0.94
7.0	15	0.94	0.94	0.94
11.7	47	0.94	0.93	0.94

K-fold 5 cross-validation score

Segment size	Number of trees	Accuracy	Precision(micro)	Recall(micro)
8.9	77	0.82 +- 0.04	0.84 +- 0.04	0.82 +- 0.04
7.0	15	0.81 +- 0.05	0.83 +- 0.05	0.81 +- 0.05
6.4	47	0.81 +- 0.05	0.83 +- 0.04	0.81 +- 0.05

Test dataset score

Segment size	Number of trees	Accuracy	Precision(micro)	Recall(micro)
8.9	77	0.86	0.86	0.86
7.0	15	0.83	0.83	0.83
6.4	47	0.85	0.85	0.85