

Problem Statement

Recognition of Human Activity Using the Data from Smartphone and Smart-watch.

Dataset Details

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|----------------------------------|---|
| • Number of subjects | 51 |
| • Number of activities | 18 |
| • Minutes collected per activity | 3 |
| • Sensor polling rate | 20Hz |
| • Smartphone used | Google Nexus 5/5x or Samsung Galaxy S5 |
| • Smartwatch used | LG G Watch |
| • Number raw measurements | 15,630,426 |

18 Activities

Non hand oriented activities:

{walking, jogging, stairs, standing, kicking }

Hand oriented activities (General):

{dribbling, playing catch, typing, writing, clapping, brushing teeth, folding clothes}

Hand oriented activities (eating):

{eating pasta, eating soup, eating sandwich, eating chips, drinking }

MODELS USED

- LOGISTIC REGRESSION
- DECISION TREE
- RANDOM FOREST
- KNN
- LSTM
- RNN