Code Book

Human Activity Recognition Smartphone Data

Variable name	Description
subject	ID the subject who performed the activity for each window sample. Its range is from 1 to 30.
activity	Activity name
featDomain	Feature: Time domain signal or frequency domain signal (Time or Freq)
featInstrument	Feature: Measuring instrument (Accelerometer or Gyroscope)
featAcceleration	Feature: Acceleration signal (Body or Gravity)
featVariable	Feature: Variable (Mean or SD)
featJerk	Feature: Jerk signal
featMagnitude	Feature: Magnitude of the signals calculated using the Euclidean norm
featAxis	Feature: 3-axial signals in the X, Y and Z directions (X, Y, or Z)
featCount	Feature: Count of data points used to compute average
featAverage	Feature: Average of each variable for each activity and each subject

- User str(tidyData) command to get the more information about the content of the data.
- Following are the key variable in the tidy data using command key(tidyData)

```
>
> key(tidyData)
[1] "subject"       "activity"       "featDomain"       "featAcceleration" "featInstrument"    "featJerk"
[7] "featMagnitude"  "featVariable"   "featAxis"
> |
```

- The tidy data set is available at
  https://github.com/dhananjaypatkar/ActivityRecognitionData/blob/master/HumanActivityRecongtnData.txt