Codebook for tidydata2.txt

Introduction

The tidydata2.txt contains observations representing the averages of some of the features collected during the below data collection and further study

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Human Activity Recognition Using Smartphones Dataset Version 1.0 by

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Each observation contains a subject (who participated in the study), the activity (being studied) and averages of 66 different feature variables out of total 561 feature variables captured during the above study. This codebook only informs on the averages of 66 feature variables relevant to Data gathering and cleaning course project.

For more information on the study please visit
http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones

tidydata2.txt: Column Details

Name: subject
Type: Integer
Description: Identifier of the subject that participated in the study
Values: 1..30

Name: activity
Type: Factor with 6 levels
Description: Activity of the subject that is being studied
Values: 1 WALKING
2 WALKING_UPSTAIRS
3 WALKING_DOWNSTAIRS
4 SITTING
5 STANDING
6 LAYING

Name: tbodyaccmeanx

Type: Numeric
Description: Average of mean time domain signals for body acceleration along x axis
Value:0.2216..0.30146

Name: tbodyaccmeany
Type: Numeric
Description: Average of mean time domain signals for body acceleration along y axis
Value:-0.04051..-0.00131

Name: tbodyaccmeanz
Type: Numeric
Description: Average of mean time domain signals for body acceleration along z axis
Value:-0.15251..-0.07538

Name: tgravityaccmeanx
Type: Numeric
Description: Average of mean time domain signals for gravity acceleration along x axis
Value:-0.68004..0.97451

Name: tgravityaccmeany
Type: Numeric
Description: Average of mean time domain signals for gravity acceleration along y axis
Value:-0.47989..0.95659

Name: tgravityaccmeanz
Type: Numeric
Description: Average of mean time domain signals for gravity acceleration along z axis
Value:-0.49509..0.95787

Name: tbodyaccjerkmeanx
Type: Numeric
Description: Average of mean time domain jerk signals for body acceleration along x axis
Value:0.04269..0.13019

Name: tbodyaccjerkmeany
Type: Numeric
Description: Average of mean time domain jerk signals for body acceleration along y axis
Value:-0.03869..0.05682

Name: tbodyaccjerkmeanz
Type: Numeric
Description: Average of mean time domain jerk signals for body acceleration along z axis
Value:-0.06746..0.03805

Name: tbodygyromeanx
Type: Numeric
Description: Average of mean time domain signals for body orientation along x axis
Value:-0.20578..0.1927

Name: tbodygyromeany
Type: Numeric
Description: Average of mean time domain signals for body orientation along y axis
Value:-0.20421..0.02747

Name: tbodygyromeanz
Type: Numeric
Description: Average of mean time domain signals for body orientation along z axis
Value:-0.07245..0.1791

Name: tbodygyrojerkmeanx
Type: Numeric
Description: Average of mean time domain jerk signals for body orientation along x axis
Value:-0.15721..-0.02209

Name: tbodygyrojerkmeany
Type: Numeric
Description: Average of mean time domain jerk signals for body orientation along y axis
Value:-0.07681..-0.0132

Name: tbodygyrojerkmeanz
Type: Numeric
Description: Average of mean time domain jerk signals for body orientation along z axis
Value:-0.0925..-0.00694

Name: tbodyaccmagmean
Type: Numeric
Description: Average of mean time domain signals for measuring magnitude of body acceleration
Value:-0.98649..0.6446

Name: tgravityaccmagmean
Type: Numeric
Description: Average of mean time domain signals for measuring magnitude of gravity acceleration
Value:-0.98649..0.6446

Name: tbodyaccjerkmagmean
Type: Numeric

Description: Average of mean time domain jerk signals for measuring magnitude of body acceleration
Value:-0.99281..0.43449

Name: tbodygyromagmean
Type: Numeric
Description: Average of mean time domain signals for measuring magnitude of body orientation
Value:-0.98074..0.418

Name: tbodygyrojerkmagmean
Type: Numeric
Description: Average of mean time domain jerk signals for measuring magnitude of body orientation
Value:-0.99732..0.08758

Name: fbodyaccmeanx
Type: Numeric
Description: Average of mean fast Fourier transformations of body acceleration along x axis
Value:-0.99525..0.53701

Name: fbodyaccmeany
Type: Numeric
Description: Average of mean fast Fourier transformations of body acceleration along y axis
Value:-0.98903..0.52419

Name: fbodyaccmeanz
Type: Numeric
Description: Average of mean fast Fourier transformations of body acceleration along z axis
Value:-0.98947..0.28074

Name: fbodyaccjerkmeanx
Type: Numeric
Description: Average of mean fast Fourier jerk transformations of body acceleration along x axis
Value:-0.99463..0.47432

Name: fbodyaccjerkmeany
Type: Numeric
Description: Average of mean fast Fourier jerk transformations of body acceleration along y axis
Value:-0.9894..0.27672

Name: fbodyaccjerkmeanz
Type: Numeric
Description: Average of mean fast Fourier jerk transformations of body acceleration along z axis
Value:-0.99202..0.15778

Name: fbodygyromeanx
Type: Numeric
Description: Average of mean fast Fourier transformations of body orientation along x axis
Value:-0.99312..0.47496

Name: fbodygyromeany
Type: Numeric
Description: Average of mean fast Fourier transformations of body orientation along y axis
Value:-0.99403..0.32882

Name: fbodygyromeanz
Type: Numeric
Description: Average of mean fast Fourier transformations of body orientation along z axis
Value:-0.98596..0.49241

Name: fbodyaccmagmean
Type: Numeric
Description: Average of mean fast Fourier transformations for measuring magnitude of body acceleration
Value:-0.9868..0.58664

Name: fbodybodyaccjerkmagmean
Type: Numeric
Description: Average of mean fast Fourier jerk transformations for measuring magnitude of body acceleration
Value:-0.994..0.5384

Name: fbodybodygyromagmean
Type: Numeric
Description: Average of mean fast Fourier transformations for measuring magnitude of body orientation
Value:-0.98654..0.20398

Name: fbodybodygyrojerkmagmean
Type: Numeric
Description: Average of mean fast Fourier jerk transformations for measuring magnitude of body orientation
Value:-0.99762..0.14662

Name: tbodyaccstdx
Type: Numeric
Description: Average of standard deviation of time domain signals for body acceleration along x axis
Value:-0.99607..0.62692

Name: tbodyaccstdy
Type: Numeric
Description: Average of standard deviation of time domain signals for body acceleration along y axis

Value:-0.99024..0.61694

Name: tbodyaccstdz
Type: Numeric
Description: Average of standard deviation of time domain signals for body acceleration along z axis
Value:-0.98766..0.60902

Name: tgravityaccstdx
Type: Numeric
Description: Average of standard deviation of time domain signals for gravity acceleration along x axis
Value:-0.99676..-0.82955

Name: tgravityaccstdy
Type: Numeric
Description: Average of standard deviation of time domain signals for gravity acceleration along y axis
Value:-0.99425..-0.64358

Name: tgravityaccstdz
Type: Numeric
Description: Average of standard deviation of time domain signals for gravity acceleration along z axis
Value:-0.99096..-0.61016

Name: tbodyaccjerkstdx
Type: Numeric
Description: Average of standard deviation of time domain jerk signals for body acceleration along x axis
Value:-0.9946..0.54427

Name: tbodyaccjerkstdy
Type: Numeric
Description: Average of standard deviation of time domain jerk signals for body acceleration along y axis
Value:-0.98951..0.35531

Name: tbodyaccjerkstdz
Type: Numeric
Description: Average of standard deviation of time domain jerk signals for body acceleration along z axis
Value:-0.99329..0.03102

Name: tbodygyrostdx
Type: Numeric
Description: Average of standard deviation of time domain signals for body orientation along x axis
Value:-0.99428..0.26766

Name: tbodygyrostdy
Type: Numeric

Description: Average of standard deviation of time domain signals for body orientation along y axis
Value:-0.99421..0.47652

Name: tbodygyrostdz
Type: Numeric
Description: Average of standard deviation of time domain signals for body orientation along z axis
Value:-0.98554..0.56488

Name: tbodygyrojerkstdx
Type: Numeric
Description: Average of standard deviation of time domain jerk signals for body orientation along x axis
Value:-0.99654..0.17915

Name: tbodygyrojerkstdy
Type: Numeric
Description: Average of standard deviation of time domain jerk signals for body orientation along y axis
Value:-0.99708..0.29595

Name: tbodygyrojerkstdz
Type: Numeric
Description: Average of standard deviation of time domain jerk signals for body orientation along z axis
Value:-0.99538..0.19321

Name: tbodyaccmagstd
Type: Numeric
Description: Average of standard deviation of time domain signals for measuring magnitude of body acceleration
Value:-0.98646..0.42841

Name: tgravityaccmagstd
Type: Numeric
Description: Average of standard deviation of time domain signals for measuring magnitude of gravity acceleration
Value:-0.98646..0.42841

Name: tbodyaccjerkmagstd
Type: Numeric
Description: Average of standard deviation of time domain jerk signals for measuring magnitude of body acceleration
Value:-0.99465..0.45061

Name: tbodygyromagstd
Type: Numeric
Description: Average of standard deviation of time domain signals for measuring magnitude of body orientation
Value:-0.98137..0.29998

Name: tbodygyrojerkmagstd
Type: Numeric
Description: Average of standard deviation of time domain jerk signals for measuring magnitude of body orientation
Value:-0.99767..0.25017

Name: fbodyaccstdx
Type: Numeric
Description: Average of standard deviation of fast Fourier transformations of body acceleration along x axis
Value:-0.9966..0.65851

Name: fbodyaccstdy
Type: Numeric
Description: Average of standard deviation of fast Fourier transformations of body acceleration along y axis
Value:-0.99068..0.56019

Name: fbodyaccstdz
Type: Numeric
Description: Average of standard deviation of fast Fourier transformations of body acceleration along z axis
Value:-0.98722..0.68712

Name: fbodyaccjerkstdx
Type: Numeric
Description: Average of standard deviation of fast Fourier jerk transformations of body acceleration along x axis
Value:-0.99507..0.4768

Name: fbodyaccjerkstdy
Type: Numeric
Description: Average of standard deviation of fast Fourier jerk transformations of body acceleration along y axis
Value:-0.99047..0.34977

Name: fbodyaccjerkstdz
Type: Numeric
Description: Average of standard deviation of fast Fourier jerk transformations of body acceleration along z axis
Value:-0.99311..-0.00624

Name: fbodygyrostdx
Type: Numeric
Description: Average of standard deviation of fast Fourier transformations of body orientation along x axis
Value:-0.99465..0.19661

Name: fbodygyrostdy
Type: Numeric
Description: Average of standard deviation of fast Fourier transformations of body orientation along y axis

Value:-0.99435..0.64623

Name: fbodygyrostdz
Type: Numeric
Description: Average of standard deviation of fast Fourier transformations of body orientation along z axis
Value:-0.98673..0.52245

Name: fbodyaccmagstd
Type: Numeric
Description: Average of standard deviation of fast Fourier transformations for measuring magnitude of body acceleration
Value:-0.98765..0.17868

Name: fbodybodyaccjerkmagstd
Type: Numeric
Description: Average of standard deviation of fast Fourier jerk transformations for measuring magnitude of body acceleration
Value:-0.99437..0.31635

Name: fbodybodygyromagstd
Type: Numeric
Description: Average of standard deviation of fast Fourier transformations for measuring magnitude of body orientation
Value:-0.98147..0.23666

Name: fbodybodygyrojerkmagstd
Type: Numeric
Description: Average of standard deviation of fast Fourier jerk transformations for measuring magnitude of body acceleration
Value:-0.99759..0.28783