

## Data Dictionary Human Activity Recognition Using Smartphones Dataset

- subjectID

Participant's (volunteer's) ID                      1..30

- Activity

Activity performed

walking  
walking upstairs  
walking downstairs  
sitting  
standing  
laying

- bodyAccelerationTimeMeanX

Mean of body acceleration in time domain, at X axis

- bodyAccelerationTimeMeanY

Mean of body acceleration in time domain, at Y axis

- bodyAccelerationTimeMeanZ

Mean of body acceleration in time domain, at Z axis

- gravityAccelerationTimeMeanX

Mean of gravity acceleration in time domain, at X axis

- gravityAccelerationTimeMeanY

Mean of gravity acceleration in time domain, at Y axis

- gravityAccelerationTimeMeanZ

Mean of gravity acceleration in time domain, at Z axis

- linearAccelerationTimeMeanX

Mean of body Jerk signal (in time) at X axis

- linearAccelerationTimeMeanY

Mean of body Jerk signal (in time) at Y axis

- linearAccelerationTimeMeanZ

Mean of body Jerk signal (in time) at Z axis

- bodyVelocityTimeMeanX

Mean of body velocity in time, at X axis

- bodyVelocityTimeMeanY

Mean of body velocity in time, at Y axis

- bodyVelocityTimeMeanZ

Mean of body velocity in time, at X axis

- angularVelocityTimeMeanX

Mean of angular velocity in time, at X axis

- angularVelocityTimeMeanY

Mean of angular velocity in time, at Y axis

- angularVelocityTimeMeanZ

Mean of angular velocity in time, at Z axis

- bodyAccelerationTimeMagMean

Mean of magnitude of body acceleration in time

- gravityAccelerationTimeMagMean

Mean of magnitude of gravity acceleration in time

- linearAccelerationTimeMagMean

Mean of magnitude of linear acceleration in time

- bodyVelocityTimeMagMean

Mean of magnitude of body velocity in time

- angularVelocityTimeMagMean

Mean of magnitude of angular velocity in time

- bodyAccelerationFrequencyMeanX

Mean of body acceleration frequency at X axis

- bodyAccelerationFrequencyMeanY

Mean of body acceleration frequency at Y axis

- bodyAccelerationFrequencyMeanZ

- Mean of body acceleration frequency at Z axis

- bodyAccelerationFrequencyMeanFreqX

Mean of meanFreq of body acceleration frequency at X axis

- bodyAccelerationFrequencyMeanFreqY

Mean of meanFreq of body acceleration frequency at Y axis

- bodyAccelerationFrequencyMeanFreqZ

Mean of meanFreq of body acceleration frequency at Z axis

- linearAccelerationFrequencyMeanX

Mean of linear acceleration frequency at X axis

- linearAccelerationFrequencyMeanY

Mean of linear acceleration frequency at Y axis

- linearAccelerationFrequencyMeanZ

Mean of linear acceleration frequency at Z axis

- linearAccelerationFrequencyMeanFreqX

Mean of linear acceleration frequency of meanFreq at X axis

- linearAccelerationFrequencyMeanFreqY

Mean of linear acceleration frequency of meanFreq at Y axis

- linearAccelerationFrequencyMeanFreqZ

Mean of linear acceleration frequency of meanFreq at Z axis

- bodyVelocityFrequencyMeanX

Mean of body velocity frequency at X axis

- bodyVelocityFrequencyMeanY

Mean of body velocity frequency at Y axis

- bodyVelocityFrequencyMeanZ

Mean of body velocity frequency at Z axis

- bodyVelocityFrequencyMeanFreqX

Mean of body velocity frequency of meanFreq at X axis

- bodyVelocityFrequencyMeanFreqY

Mean of body velocity frequency of meanFreq at Y axis

- bodyVelocityFrequencyMeanFreqZ

Mean of body velocity frequency of meanFreq at X axis

- bodyAccelerationFrequencyMagMean

Mean of magnitude body acceleration frequency

- bodyAccelerationFrequencyMagMeanFreq

Mean of magnitude of body acceleration frequency of meanFreq

- bodyALinearAccelerationMagnitudeFrequencyMean

Mean of magnitude of linear acceleration frequency

- bodyLinearAccelerationMagnitudeFrequencyMeanFreq

Mean of magnitude of body linear acceleration frequency of meanFreq

- bodyVelocityMagnitudeFrequencyMean

Mean of magnitude of body velocity frequency

- bodyVelocityMagnitudeFrequencyMeanFreq

Mean of magnitude of body velocity frequency of meanFreq

- angularVelocityMagnitudeFrequencyMean

Mean of magnitude angular velocity frequency

- angularVelocityMagnitudeFrequencyMeanFreq

Mean of magnitude of angular velocity

- anglebodyAccelerationTimeMeangravity

Mean of body angle per gravity in time

- anglelinearAccelerationTimeMeangravityMean

Mean of angle of linear acceleration in gravity and time

- anglebodyVelocityTimeMeangravityMean

Mean of angle of body velocity in time and gravity

- angleangularVelocityTimeMeangravityMean

Mean of angle of velocity in time and gravity

- angleGravityMeanX

Mean of angle gravity mean at X axis

- angleGravityMeanY

- Mean of angle gravity mean at Y axis

- angleGravityMeanZ

- Mean of angle gravity mean at Z axis

- bodyAccelerationTimeStdX

Mean of Standard deviation of body acceleration in time at X axis

- bodyAccelerationTimeStdY

Mean of Standard deviation of body acceleration in time at Y axis

- bodyAccelerationTimeStdZ

Mean of Standard deviation of body acceleration in time at Z axis

- gravityAccelerationTimeStdX

Mean of standard deviation of gravity acceleration in time at X axis

- gravityAccelerationTimeStdY

Mean of standard deviation of gravity acceleration in time at Y axis

- gravityAccelerationTimeStdZ

Mean of standard deviation of gravity acceleration in time at Z axis

- linearAccelerationTimeStdX

Mean of standard deviation of linear acceleration in time at X axis

- linearAccelerationTimeStdY

- Mean of standard deviation of linear acceleration in time at Y axis

- linearAccelerationTimeStdZ

Mean of standard deviation of linear acceleration in time at Z axis

- bodyVelocityTimeStdX

Mean of standard deviation of body velocity in time at X axis

- bodyVelocityTimeStdY

Mean of standard deviation of body velocity in time at Y axis

- bodyVelocityTimeStdZ

Mean of standard deviation of body velocity in time at Z axis

- angularVelocityTimeStdX

Mean of standard deviation of angular velocity in time at X axis

- angularVelocityTimeStdY

Mean of standard deviation of angular velocity in time at Y axis

- angularVelocityTimeStdZ

Mean of standard deviation of angular velocity in time at Z axis

- bodyAccelerationTimeMagStd

Mean of standard deviation of body acceleration

- gravityAccelerationTimeMagStd

Mean of standard deviation of magnitude of gravity acceleration

- linearAccelerationTimeMagStd

Mean of magnitude of standard deviation of linear acceleration in time

- bodyVelocityTimeMagStd

Mean of magnitude of standard deviation of body velocity in time

- angularVelocityTimeMagStd

Mean of magnitude of standard deviation of angular velocity in time

- bodyAccelerationFrequencyStdX

Mean of standard deviation of frequency of body acceleration at X axis

- bodyAccelerationFrequencyStdY

Mean of standard deviation of frequency of body acceleration at Y axis

- bodyAccelerationFrequencyStdZ

Mean of standard deviation of frequency of body acceleration at Z axis

- linearAccelerationFrequencyStdX

Mean of standard deviation of frequency of linear acceleration at X axis

- linearAccelerationFrequencyStdY

Mean of standard deviation of frequency of linear acceleration at Y axis

- linearAccelerationFrequencyStdZ

Mean of standard deviation of frequency of linear acceleration at Z axis

- bodyVelocityFrequencyStdX

Mean of standard deviation of frequency of linear acceleration at X axis

- bodyVelocityFrequencyStdY

Mean of standard deviation of frequency of linear acceleration at Y axis

- bodyVelocityFrequencyStdZ

Mean of standard deviation of frequency of linear acceleration at Z axis

- bodyAccelerationFrequencyMagStd

Mean of magnitude of standard deviation of body acceleration

- bodyALinearAccelerationMagnitudeFrequencyStd

Mean of magnitude of frequency of standard deviation of body linear acceleration

- bodyVelocityMagnitudeFrequencyStd

Mean of magnitude of standard deviation of body velocity

- angularVelocityMagnitudeFrequencyStd

Mean of magnitude of standard deviation of angular velocity

1- FeatureInfo file