Data dictionary

Subject ID

Represents the subject who performed the activity for each window sample. Its range is from 1 to 30.

Activity ID

Represents the activity performed by each subject. There are in total six activities therefore the range of this value is 1 to 6.

Activity Name

The descriptive names of the variable Activity ID. The values are in the range of six activities, which are WALKING, WALKING_UPSTAIRS, WALKING_DOWNSTAIRS, SITTING, STANDING, LAYING.

The variables below are the **mean value** of the feature vector for each activity performed by the subject. '-XYZ' is used to denote 3-axial signals in the X, Y and Z directions.

Time BodyAcc Mean X

Time domain for Body Acceleration Signal in X direction

Time BodyAcc Mean Y

Time domain for Body Acceleration Signal in Y direction

Time BodyAcc Mean Z

Time domain for Body Acceleration Signal in Z direction

Time GravityAcc Mean X

Time domain for Gravity Acceleration Signal in X direction

Time GravityAcc Mean Y

Time domain for Gravity Acceleration Signal in Y direction

Time GravityAcc Mean Z

Time domain for Gravity Acceleration Signal in Z direction

Time BodyAccJerk Mean X

Time domain for Body Acceleration Jerk Signal in X direction

Time BodyAccJerk Mean Y

Time domain for Body Acceleration Jerk Signal in Y direction

Time BodyAccJerk Mean Z

Time domain for Body Acceleration Jerk Signal in Z direction

Time BodyGyro Mean X

Time domain for Body Gyro Signal in X direction

Time BodyGyro Mean Y

Time domain for Body Gyro Signal in Y direction

Time BodyGyro Mean Z

Time domain for Body Gyro Signal in Z direction

Time BodyGyroJerk Mean X

Time domain for Body Gyro Jerk Signal in X direction

Time BodyGyroJerk Mean Y

Time domain for Body Gyro Jerk Signal in Y direction

Time BodyGyroJerk Mean Z

Time domain for Body Gyro Jerk Signal in Z direction

Time BodyAccMag Mean

Time domain for Magnitude of the Body Acceleration Signal

Time GravityAccMag Mean

Time domain for Magnitude of the Gravity Acceleration Signal

Time BodyAccJerkMag Mean

Time domain for Magnitude of the Body Acceleration Jerk Signal

Time BodyGyroMag Mean

Time domain for Magnitude of the Body Gyro Signal

Time BodyGyroJerkMag Mean

Time domain for Magnitude of the Body Gyro Jerk Signal

Frequency BodyAcc Mean X

Frequency domain for Body Acceleration signal in X direction

Frequency BodyAcc Mean Y

Frequency domain for Body Acceleration signal in Y direction

Frequency BodyAcc Mean Z

Frequency domain for Body Acceleration signal in Z direction

Frequency BodyAccJerk Mean X

Frequency domain for Body Acceleration Jerk signal in X direction

Frequency BodyAccJerk Mean Y

Frequency domain for Body Acceleration Jerk signal in Y direction

Frequency BodyAccJerk Mean Z

Frequency domain for Body Acceleration Jerk signal in Z direction

Frequency BodyGyro Mean X
Frequency domain for Body Gyro signal in X direction

Frequency BodyGyro Mean Y
Frequency domain for Body Gyro signal in Y direction

Frequency BodyGyro Mean Z
Frequency domain for Body Gyro signal in Z direction

Frequency BodyAccMag Mean
Frequency domain for Magnitude of Body Acceleration signal

Frequency BodyBodyAccJerkMag Mean
Frequency domain for Magnitude of Body Acceleration Jerk signal

Frequency BodyBodyGyroMag Mean
Frequency domain for Magnitude of Body Gyro signal

Frequency BodyBodyGyroJerkMag Mean
Frequency domain for Magnitude of Body Gyro Jerk signal

The variables below are the Standard deviation value of the feature vector for each activity performed by the subject. '-XYZ' is used to denote 3-axial signals in the X, Y and Z directions.

Time BodyAcc Std X
Time domain for Body Acceleration Signal in X direction

Time BodyAcc Std Y
Time domain for Body Acceleration Signal in Y direction

Time BodyAcc Std Z
Time domain for Body Acceleration Signal in Z direction

Time GravityAcc Std X
Time domain for Gravity Acceleration Signal in X direction

Time GravityAcc Std Y
Time domain for Gravity Acceleration Signal in Y direction

Time GravityAcc Std Z
Time domain for Gravity Acceleration Signal in Z direction

Time BodyAccJerk Std X
Time domain for Body Acceleration Jerk Signal in X direction

Time BodyAccJerk Std Y
Time domain for Body Acceleration Jerk Signal in Y direction

Time BodyAccJerk Std Z
Time domain for Body Acceleration Jerk Signal in Z direction

Time BodyGyro Std X
Time domain for Body Gyro Signal in X direction

Time BodyGyro Std Y
Time domain for Body Gyro Signal in Y direction

Time BodyGyro Std Z
Time domain for Body Gyro Signal in Z direction

Time BodyGyroJerk Std X
Time domain for Body Gyro Jerk Signal in X direction

Time BodyGyroJerk Std Y
Time domain for Body Gyro Jerk Signal in Y direction

Time BodyGyroJerk Std Z
Time domain for Body Gyro Jerk Signal in Z direction

Time BodyAccMag Std
Time domain for Magnitude of the Body Acceleration Signal

Time GravityAccMag Std
Time domain for Magnitude of the Gravity Acceleration Signal

Time BodyAccJerkMag Std
Time domain for Magnitude of the Body Acceleration Jerk Signal

Time BodyGyroMag Std
Time domain for Magnitude of the Body Gyro Signal

Time BodyGyroJerkMag Std
Time domain for Magnitude of the Body Gyro Jerk Signal

Frequency BodyAcc Std X
Frequency domain for Body Acceleration signal in X direction

Frequency BodyAcc Std Y
Frequency domain for Body Acceleration signal in Y direction

Frequency BodyAcc Std Z
Frequency domain for Body Acceleration signal in Z direction

Frequency BodyAccJerk Std X
Frequency domain for Body Acceleration Jerk signal in X direction

Frequency BodyAccJerk Std Y

Frequency domain for Body Acceleration Jerk signal in Y direction

Frequency BodyAccJerk Std Z

Frequency domain for Body Acceleration Jerk signal in Z direction

Frequency BodyGyro Std X

Frequency domain for Body Gyro signal in X direction

Frequency BodyGyro Std Y

Frequency domain for Body Gyro signal in Y direction

Frequency BodyGyro Std Z

Frequency domain for Body Gyro signal in Z direction

Frequency BodyAccMag Std

Frequency domain for Magnitude of Body Acceleration signal

Frequency BodyBodyAccJerkMag Std

Frequency domain for Magnitude of Body Acceleration Jerk signal

Frequency BodyBodyGyroMag Std

Frequency domain for Magnitude of Body Gyro signal

Frequency BodyBodyGyroJerkMag Std

Frequency domain for Magnitude of Body Gyro Jerk signal