```
Getting & Cleaning Data Project Data Dictionary
______
<empty cell>
       {Row numbers}
                       1..180
subject
                       1
       Volunteers who participated in this experiment
                       1..5
activity
                       18
       Activity performed by a volunteer (subject) while wearing a SmartPhone
                       1 .WALKING
                       2 .WALKING_UPSTAIRS
                       3 .WALKING DOWNSTAIRS
                       4 .SITTING
                       5 .STANDING
                       6 .LAYING
td_BodyAcc_mean_X
                       12
       Time domain - Mean Body acceleration along X-axis
                       -1.0..1.0 .Normalized numeric value representing the mean
td_BodyAcc_mean_Y
       Time domain - Mean Body acceleration along Y-axis
                       -1.0..1.0 .Normalized numeric value representing the mean
td_BodyAcc_mean_Z
                       12
       Time domain - Mean Body acceleration along Z-axis
                       -1.0..1.0 .Normalized numeric value representing the mean
td_BodyAcc_std_X
                       12
       Time domain - Standard Deviation of Body acceleration along X-axis
                       -1.0..1.0 .Normalized numeric value representing standard deviation
td_BodyAcc_std_Y
       Time domain - Standard Deviation of Body acceleration along Y-axis
                       -1.0..1.0 .Normalized numeric value representing the standard deviation
td BodyAcc std Z
                       12
       Time domain - Standard Deviation of Body acceleration along X-axis
                       -1.0..1.0 .Normalized numeric value representing the standard deviation
td_GravityAcc_mean_X
                       12
       Time domain - Gravitational component of body acceleration - Mean along X-axis
                       -1.0..1.0 .Normalized numeric value representing the mean
td_GravityAcc_mean_Y
                       12
       Time domain - Gravitational component of body acceleration - Mean along Y-axis
                       -1.0..1.0 .Normalized numeric value representing the mean
td GravityAcc mean Z
                       12
```

```
Time domain - Gravitational component of body acceleration - Mean along Z-axis
                        -1.0..1.0 .Normalized numeric value representing the mean
td_GravityAcc_std_X
       Time domain - Gravitational component of body acceleration - Std along X-axis
                        -1.0..1.0 .Normalized numeric value representing standard deviation
td_GravityAcc_std_Y
                        12
       Time domain - Gravitational component of body acceleration - Std along Y-axis
                        -1.0..1.0 .Normalized numeric value representing standard deviation
td_GravityAcc_std_Z
                       12
       Time domain - Gravitational component of body acceleration - Std along Z-axis
                        -1.0..1.0 .Normalized numeric value representing standard deviation
td_BodyAccJerk_mean_X
       Time domain - Body acceleration Jerk - Mean along X-axis
                        -1.0..1.0 .Normalized numeric value representing mean
td BodyAccJerk mean Y
       Time domain - Body acceleration Jerk - Mean along Y-axis
                        -1.0..1.0 .Normalized numeric value representing mean
td BodyAccJerk mean Z
       Time domain - Body acceleration Jerk - Mean along Z-axis
                        -1.0..1.0 .Normalized numeric value representing mean
td_BodyAccJerk_std_X
                       12
       Time domain - Body acceleration Jerk - Std along X-axis
                        -1.0..1.0 .Normalized numeric value representing Std
td_BodyAccJerk_std_Y
       Time domain - Body acceleration Jerk - Std along Y-axis
                        -1.0..1.0 .Normalized numeric value representing Std
td_BodyAccJerk_std_Z
                        12
       Time domain - Body acceleration Jerk - Std along Z-axis
                        -1.0..1.0 .Normalized numeric value representing Std
td_BodyGyro_mean_X
                       12
       Time domain - Body Gyroscope reading - Mean along X-axis
                        -1.0..1.0 .Normalized numeric value representing mean
td_BodyGyro_mean_Y
                        12
       Time domain - Body Gyroscope reading - Mean along Y-axis
                        -1.0..1.0 .Normalized numeric value representing mean
td_BodyGyro_mean_Z
                       12
       Time domain - Body Gyroscope reading - Mean along Z-axis
                        -1.0..1.0 .Normalized numeric value representing mean
td_BodyGyro_std_X
                        12
       Time domain - Body Gyroscope reading - Std along X-axis
```

```
-1.0..1.0 .Normalized numeric value representing Std
td_BodyGyro_std_Y
       Time domain - Body Gyroscope reading - Std along Y-axis
                        -1.0..1.0 .Normalized numeric value representing Std
td_BodyGyro_std_Z
                        12
       Time domain - Body Gyroscope reading - Std along Z-axis
                        -1.0..1.0 .Normalized numeric value representing Std
td_BodyGyroJerk_mean_X 12
       Time domain - Body Gyroscope Jerk reading - mean along X-axis
                        -1.0..1.0 .Normalized numeric value representing mean
td_BodyGyroJerk_mean_Y 12
        Time domain - Body Gyroscope Jerk reading - mean along Y-axis
                        -1.0..1.0 .Normalized numeric value representing mean
td_BodyGyroJerk_mean_Z 12
       Time domain - Body Gyroscope Jerk reading - mean along Z-axis
                        -1.0..1.0 .Normalized numeric value representing mean
td_BodyGyroJerk_std_X
                      12
       Time domain - Body Gyroscope Jerk reading - Std along X-axis
                        -1.0..1.0 .Normalized numeric value representing Std
td_BodyGyroJerk_std_Y
                       12
       Time domain - Body Gyroscope Jerk reading - Std along Y-axis
                        -1.0..1.0 .Normalized numeric value representing Std
td_BodyGyroJerk_std_Z
       Time domain - Body Gyroscope Jerk reading - Std along Z-axis
                        -1.0..1.0 .Normalized numeric value representing Std
td_BodyAccMag_mean
                       12
       Time domain - Body acceleration magnitude reading - mean
                        -1.0..1.0 .Normalized numeric value representing mean
td_BodyAccMag_std
                       12
       Time domain - Body acceleration magnitude reading - Std
                        -1.0..1.0 .Normalized numeric value representing Std
td_GravityAccMag_mean
       Time domain - Gravitational acceleration magnitude reading - mean
                        -1.0..1.0 .Normalized numeric value representing mean
td_GravityAccMag_std
       Time domain - Gravitational acceleration magnitude reading - Std
                        -1.0..1.0 .Normalized numeric value representing Std
td_BodyAccJerkMag_mean 12
       Time domain - Body acceleration jerk magnitude reading - mean
                        -1.0..1.0 .Normalized numeric value representing mean
```

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td_BodyAccJerkMag_std
                        12
       Time domain - Body acceleration jerk magnitude reading - Std
                        -1.0..1.0 .Normalized numeric value representing Std
td_BodyGyroMag_mean
                        12
       Time domain - Body Gyroscope magnitude reading - mean
                        -1.0..1.0 .Normalized numeric value representing mean
td_BodyGyroMag_std
                        12
       Time domain - Body Gyroscope magnitude reading - Std
                        -1.0..1.0 .Normalized numeric value representing Std
td_BodyGyroJerkMag_mean 12
       Time domain - Body Gyroscope Jerk magnitude reading - mean
                        -1.0..1.0 .Normalized numeric value representing mean
td_BodyGyroJerkMag_std 12
       Time domain - Body Gyroscope Jerk magnitude reading - Std
                        -1.0..1.0 .Normalized numeric value representing Std
fd_BodyAcc_mean_X
                        12
       Frequency domain - Mean Body acceleration along X-axis
                        -1.0..1.0 .Normalized numeric value representing the mean
fd_BodyAcc_mean_Y
       Frequency domain - Mean Body acceleration along Y-axis
                        -1.0..1.0 .Normalized numeric value representing the mean
fd_BodyAcc_mean_Z
                        12
       Frequency domain - Mean Body acceleration along Z-axis
                        -1.0..1.0 .Normalized numeric value representing the mean
fd_BodyAcc_std_X
       Frequency domain - Standard Deviation of Body acceleration along X-axis
                        -1.0..1.0 .Normalized numeric value representing standard deviation
fd_BodyAcc_std_Y
                        12
       Frequency domain - Standard Deviation of Body acceleration along Y-axis
                        -1.0..1.0 .Normalized numeric value representing standard deviation
fd_BodyAcc_std_Z
                        12
       Frequency domain - Standard Deviation of Body acceleration along Z-axis
                        -1.0..1.0 .Normalized numeric value representing standard deviation
fd_BodyAcc_mean_FreqX
       Frequency domain - Mean Body acceleration frequency along X-axis
                        -1.0..1.0 .Normalized numeric value representing mean
fd_BodyAcc_mean_FreqY
                        12
       Frequency domain - Mean Body acceleration frequency along Y-axis
                        -1.0..1.0 .Normalized numeric value representing mean
```

```
fd_BodyAcc_mean_FreqZ
                       12
       Frequency domain - Mean Body acceleration frequency along Z-axis
                        -1.0..1.0 .Normalized numeric value representing mean
fd_BodyAccJerk_mean_X
       Frequency domain - Mean Body acceleration Jerk along X-axis
                        -1.0..1.0 .Normalized numeric value representing mean
fd BodyAccJerk mean Y
       Frequency domain - Mean Body acceleration Jerk along Y-axis
                        -1.0..1.0 .Normalized numeric value representing mean
fd_BodyAccJerk_mean_Z
                        12
       Frequency domain - Mean Body acceleration Jerk along Z-axis
                        -1.0..1.0 .Normalized numeric value representing mean
fd_BodyAccJerk_std_X
       Frequency domain - Body acceleration Jerk Std along X-axis
                        -1.0..1.0 .Normalized numeric value representing Std
fd_BodyAccJerk_std_Y
                        12
       Frequency domain - Body acceleration Jerk Std along Y-axis
                        -1.0..1.0 .Normalized numeric value representing Std
fd_BodyAccJerk_std_Z
       Frequency domain - Body acceleration Jerk Std along Z-axis-axis
                        -1.0..1.0 .Normalized numeric value representing Std
fd_BodyAccJerk_mean_FreqX
                          12
       Frequency domain - Mean Body acceleration Jerk Frequency along X-axis
                        -1.0..1.0 .Normalized numeric value representing mean
fd_BodyAccJerk_mean_FreqY
                          12
       Frequency domain - Mean Body acceleration Jerk Frequency along Y-axis
                        -1.0..1.0 .Normalized numeric value representing mean
fd BodyAccJerk mean FreqZ
       Frequency domain - Mean Body acceleration Jerk Frequency along Z-axis
                        -1.0..1.0 .Normalized numeric value representing mean
fd BodyGyro mean X
       Frequency domain - Mean Body Gyroscope reading along X-axis
                        -1.0..1.0 .Normalized numeric value representing mean
fd_BodyGyro_mean_Y
                        12
       Frequency domain - Mean Body Gyroscope reading along Y-axis
                        -1.0..1.0 .Normalized numeric value representing mean
fd_BodyGyro_mean_Z
                        12
       Frequency domain - Mean Body Gyroscope reading along Z-axis
                        -1.0..1.0 .Normalized numeric value representing mean
fd BodyGyro std X
                        12
```

Frequency domain - Body Gyroscope reading Std along X-axis -1.0..1.0 .Normalized numeric value representing Std fd BodyGyro std Y Frequency domain - Body Gyroscope reading Std along Y-axis -1.0..1.0 .Normalized numeric value representing Std fd BodyGyro std Z Frequency domain - Body Gyroscope reading Std along Z-axis -1.0..1.0 .Normalized numeric value representing Std fd BodyGyro mean FreqX 12 Frequency domain - Mean Body Gyroscope frequency reading along X-axis -1.0..1.0 .Normalized numeric value representing mean fd\_BodyGyro\_mean\_FreqY 12 Frequency domain - Mean Body Gyroscope frequency reading along Y-axis -1.0..1.0 .Normalized numeric value representing mean fd BodyGyro mean FreqZ 12 Frequency domain - Mean Body Gyroscope frequency reading along Z-axis -1.0..1.0 .Normalized numeric value representing mean fd BodyAccMag mean Frequency domain - Mean Body acceleration magnitude -1.0..1.0 .Normalized numeric value representing mean fd BodyAccMag std 12 Frequency domain - Body acceleration magnitude Std -1.0..1.0 .Normalized numeric value representing Std fd\_BodyAccMag\_mean\_Freq 12 Frequency domain - Mean Body acceleration magnitude frequency -1.0..1.0 .Normalized numeric value representing mean fd\_BodyAccJerkMag\_mean 12 Frequency domain - Mean Body acceleration Jerk magnitude -1.0..1.0 .Normalized numeric value representing mean fd\_BodyAccJerkMag\_std 12 Frequency domain - Body acceleration Jerk magnitude Std -1.0..1.0 .Normalized numeric value representing Std fd\_BodyAccJerkMag\_mean\_Freq 12 Frequency domain - Mean Body acceleration jerk magnitude frequency -1.0..1.0 .Normalized numeric value representing mean fd\_BodyGyroMag\_mean 12 Frequency domain - Mean Body Gyroscope magnitude -1.0..1.0 .Normalized numeric value representing mean fd\_BodyGyroMag\_std 12 Frequency domain - Body Gyroscope magnitude Std

-1.0..1.0 .Normalized numeric value representing Std

fd\_BodyGyroMag\_mean\_Freq 12

Frequency domain - Mean Body Gyroscope magnitude Frequency

-1.0..1.0 .Normalized numeric value representing mean

fd\_BodyGyroJerkMag\_mean 12

Frequency domain - Mean Body Gyroscope Jerk magnitude

-1.0..1.0 .Normalized numeric value representing mean

fd\_BodyGyroJerkMag\_std 12

Frequency domain - Body Gyroscope Jerk magnitude Std

-1.0..1.0 .Normalized numeric value representing Std

fd\_BodyGyroJerkMag\_mean\_Freq 12

Frequency domain - Mean Body Gyroscope Jerk Frequency magnitude

-1.0..1.0 .Normalized numeric value representing