## Run Analysis Codebook - Coleman

Variable	Description	<b>Potential Values</b>	Units
	The subject or participant the raw data		
Subject	originates from	1 - 30	(none)
		WALKING	
		WALKING	
		UPSTAIRS	
		WALKING	
		DOWNSTAIRS	
		SITTING	
	The activity associated with the raw data	STANDING	
Activity	being reported	LAYING	(none)
Time Body Acceleration - Mean -	The mean of the normalized time body		
x	accelerometer data in the X-axis	-1 to 1	(none)
Time Body Acceleration - Mean -	The mean of the normalized time body		
Υ	accelerometer data in the Y-axis	-1 to 1	(none)
Time Body Acceleration - Mean -	The mean of the normalized time body		
z	accelerometer data in the Z-axis	-1 to 1	(none)
Time Body Acceleration -	The standard deviation of the normalized time		
Standard Deviation - X	body accelerometer data in the X-axis	-1 to 1	(none)
Time Body Acceleration -	The standard deviation of the normalized time		
Standard Deviation - Y	body accelerometer data in the Y-axis	-1 to 1	(none)
Time Body Acceleration -	The standard deviation of the normalized time		
Standard Deviation - Z	body accelerometer data in the Z-axis	-1 to 1	(none)
Time Gravity Acceleration -	The mean of the normalized time gravity		
Mean - X	accelerometer data in the X-axis	-1 to 1	(none)
Time Gravity Acceleration -	The mean of the normalized time gravity		
Mean - Y	accelerometer data in the Y-axis	-1 to 1	(none)
Time Gravity Acceleration -	The mean of the normalized time gravity		
Mean - Z	accelerometer data in the Z-axis	-1 to 1	(none)
Time Gravity Acceleration -	The standard deviation of the normalized time		
Standard Deviation - X	gravity accelerometer data in the X-axis	-1 to 1	(none)
Time Gravity Acceleration -	The standard deviation of the normalized time		
Standard Deviation - Y	gravity accelerometer data in the Y-axis	-1 to 1	(none)
Time Gravity Acceleration -	The standard deviation of the normalized time		
Standard Deviation - Z	gravity accelerometer data in the Z-axis	-1 to 1	(none)
Time Body Acceleration Jerk -	The mean of the normalized time body jerk		
Mean - X	accelerometer data in the X-axis	-1 to 1	(none)
Time Body Acceleration Jerk -	The mean of the normalized time body jerk		
Mean - Y	accelerometer data in the Y-axis	-1 to 1	(none)

Time Body Acceleration Jerk -	The mean of the normalized time body jerk		
Mean - Z	accelerometer data in the Z-axis	-1 to 1	(none)
Time Body Acceleration Jerk -	The standard deviation of the normalized time		
Standard Deviation - X	body jerk accelerometer data in the X-axis	-1 to 1	(none)
Time Body Acceleration Jerk -	The standard deviation of the normalized time		
Standard Deviation - Y	body jerk accelerometer data in the Y-axis	-1 to 1	(none)
Time Body Acceleration Jerk -	The standard deviation of the normalized time		
Standard Deviation - Z	body jerk accelerometer data in the Z-axis	-1 to 1	(none)
	The mean of the normalized time body		
Time Body Gyroscope - Mean - X	gyroscopic data in the X-axis	-1 to 1	(none)
	The mean of the normalized time body		
Time Body Gyroscope - Mean - Y	gyroscopic data in the Y-axis	-1 to 1	(none)
	The mean of the normalized time body		· ·
Time Body Gyroscope - Mean - Z	•	-1 to 1	(none)
<u> </u>	The standard deviation of the normalized time		
Deviation - X	body gyroscopic data in the X-axis	-1 to 1	(none)
	The standard deviation of the normalized time		( /
Deviation - Y	body gyroscopic data in the Y-axis	-1 to 1	(none)
Time Body Gyroscope - Standard	1 2 1		( /
Deviation - Z	body gyroscopic data in the Z-axis	-1 to 1	(none)
Time Body Gyroscope Jerk -	The mean of the normalized time body jerk		(*******)
Mean - X	gyroscopic data in the X-axis	-1 to 1	(none)
Time Body Gyroscope Jerk -	The mean of the normalized time body jerk	1 (0 1	(110110)
Mean - Y	gyroscopic data in the Y-axis	-1 to 1	(none)
Time Body Gyroscope Jerk -	The mean of the normalized time body jerk	1 (0 1	(110110)
Mean - Z	gyroscopic data in the Z-axis	-1 to 1	(none)
Time Body Gyroscope Jerk -	The standard deviation of the normalized time	1 (0 1	(Horie)
Standard Deviation - X	body jerk gyroscopic data in the X-axis	-1 to 1	(none)
Time Body Gyroscope Jerk -	The standard deviation of the normalized time	1 (0 1	(HOHC)
Standard Deviation - Y	body jerk gyroscopic data in the Y-axis	-1 to 1	(none)
	The standard deviation of the normalized time	1 (0 1	(Horic)
Time Body Gyroscope Jerk - Standard Deviation - Z	body jerk gyroscopic data in the Z-axis	-1 to 1	(none)
		-1 (0 1	(Hone)
Time Body Acceleration	The mean of the normalized time body	1 +0 1	(nona)
Magnitude - Mean	magnitude accelerometer data	-1 to 1	(none)
Time o Dody Appelaration	The standard deviation of the manner line day in		
Time Body Acceleration	The standard deviation of the normalized time	1 +0 1	(nona)
Magnitude - Standard Deviation	body magnitude accelerometer data	-1 to 1	(none)
Time Gravity Acceleration	The mean of the normalized time gravity	4.1-4	/m = = = 1
Magnitude - Mean	magnitude accelerometer data	-1 to 1	(none)

Time Gravity Acceleration	The standard deviation of the normalized time		
Magnitude - Standard Deviation	gravity magnitude accelerometer data	-1 to 1	(none)
Time Body Acceleration Jerk	The mean of the normalized time body		()
Magnitude - Mean	magnitude jerk accelerometer data	-1 to 1	(none)
Wagnitude Wedn	mag.iireade jerk decereremeter data	1 10 1	(110110)
Time Body Acceleration Jerk	The standard deviation of the normalized time		
Magnitude - Standard Deviation	body magnitude jerk accelerometer data	-1 to 1	(none)
Time Body Gyroscope	The mean of the normalized time body		,
Magnitude - Mean	magnitude gyroscopic data	-1 to 1	(none)
3	3 3, 1		,
Time Body Gyroscope	The standard deviation of the normalized time		
Magnitude - Standard Deviation	body magnitude gyroscopic data	-1 to 1	(none)
Time Body Gyroscope Jerk	The mean of the normalized time body		
Magnitude - Mean	magnitude jerk gyroscopic data	-1 to 1	(none)
Time Body Gyroscope Jerk	The standard deviation of the normalized time		
Magnitude - Standard Deviation	body magnitude jerk gyroscopic data	-1 to 1	(none)
Frequency Body Acceleration -	The mean of the normalized frequency body		
Mean - X	accelerometer data in the X-axis	-1 to 1	(none)
Frequency Body Acceleration -	The mean of the normalized frequency body		
Mean - Y	accelerometer data in the Y-axis	-1 to 1	(none)
Frequency Body Acceleration -	The mean of the normalized frequency body		
Mean - Z	accelerometer data in the Z-axis	-1 to 1	(none)
	The standard deviation of the normalized		
Frequency Body Acceleration -	frequency body accelerometer data in the X-		
Standard Deviation - X	axis	-1 to 1	(none)
	The standard deviation of the normalized		
Frequency Body Acceleration -	frequency body accelerometer data in the Y-		
Standard Deviation - Y	axis	-1 to 1	(none)
	The standard deviation of the normalized		
Frequency Body Acceleration -	frequency body accelerometer data in the Z-		
Standard Deviation - Z	axis	-1 to 1	(none)
	The frequency mean of the normalized		
Frequency Body Acceleration -	frequency body accelerometer data in the X-		
Frequency Mean - X	axis	-1 to 1	(none)
	The frequency mean of the normalized		
Frequency Body Acceleration -	frequency body accelerometer data in the Y-		
Frequency Mean - Y	axis	-1 to 1	(none)
	The frequency mean of the normalized		
Frequency Body Acceleration -	frequency body accelerometer data in the Z-		,
Frequency Mean - Z	axis	-1 to 1	(none)

Frequency Body Acceleration	The mean of the normalized frequency jerk		
Jerk - Mean - X	accelerometer data in the X-axis	-1 to 1	(none)
Frequency Body Acceleration	The mean of the normalized frequency jerk		
Jerk - Mean - Y	accelerometer data in the Y-axis	-1 to 1	(none)
Frequency Body Acceleration	The mean of the normalized frequency jerk		
Jerk - Mean - Z	accelerometer data in the Z-axis	-1 to 1	(none)
Frequency Body Acceleration	The standard deviation of the normalized		, ,
Jerk - Standard Deviation - X	frequency jerk accelerometer data in the X-axis	-1 to 1	(none)
Frequency Body Acceleration	The standard deviation of the normalized		
Jerk - Standard Deviation - Y	frequency jerk accelerometer data in the Y-axis	-1 to 1	(none)
Frequency Body Acceleration	The standard deviation of the normalized	1 +- 1	(mana)
Jerk - Standard Deviation - Z	frequency jerk accelerometer data in the Z-axis	-1 to 1	(none)
Francisco Dadi. Acceleration	The free constant and of the previous line of		
Frequency Body Acceleration	The frequency mean of the normalized frequency jerk accelerometer data in the X-axis	-1 to 1	(nono)
Jerk - Frequency Mean - X	irrequency jerk accelerometer data in the X-axis	-1 (0 1	(none)
Fraguency Rody Assolaration	The frequency mean of the normalized		
Frequency Body Acceleration  Jerk - Frequency Mean - Y	The frequency mean of the normalized frequency jerk accelerometer data in the Y-axis	-1 to 1	(none)
Jerk - Frequency Mean - 1	inequency jerk accelerometer data in the 1-axis	-1 (0 1	(Hone)
Frequency Body Acceleration	The frequency mean of the normalized		
Jerk - Frequency Mean - Z	frequency jerk accelerometer data in the Z-axis	-1 to 1	(none)
Frequency Body Gyroscope -	The mean of the normalized frequency body		()
Mean - X	gyroscopic data in the X-axis	-1 to 1	(none)
Frequency Body Gyroscope -	The mean of the normalized frequency body		( /
Mean - Y	gyroscopic data in the Y-axis	-1 to 1	(none)
Frequency Body Gyroscope -	The mean of the normalized frequency body		,
Mean - Z	gyroscopic data in the Z-axis	-1 to 1	(none)
Frequency Body Gyroscope -	The standard deviation of the normalized		, ,
Standard Deviation - X	frequency body gyroscopic data in the X-axis	-1 to 1	(none)
Frequency Body Gyroscope -	The standard deviation of the normalized		
Standard Deviation - Y	frequency body gyroscopic data in the Y-axis	-1 to 1	(none)
Frequency Body Gyroscope -	The standard deviation of the normalized		Ì
Standard Deviation - Z	frequency body gyroscopic data in the Z-axis	-1 to 1	(none)
Frequency Body Gyroscope -	The frequency mean of the normalized		•
Frequency Mean - X	frequency body gyroscopic data in the X-axis	-1 to 1	(none)
Frequency Body Gyroscope -	The frequency mean of the normalized		
Frequency Mean - Y	frequency body gyroscopic data in the Y-axis	-1 to 1	(none)
Frequency Body Gyroscope -	The frequency mean of the normalized		
Frequency Mean - Z	frequency body gyroscopic data in the Z-axis	-1 to 1	(none)

Frequency Body Acceleration	The mean of the normalized frequency body		
Magnitude - Mean	magnitude accelerometer data	-1 to 1	(none)
Frequency Body Acceleration	The standard deviation of the normalized		
Magnitude - Standard Deviation	frequency body magnitude accelerometer data	-1 to 1	(none)
Frequency Body Acceleration	The frequency mean of the normalized		
Magnitude - Frequency Mean	frequency body magnitude accelerometer data	-1 to 1	(none)
Frequency BodyBody			
Acceleration Jerk Magnitude -	The mean of the normalized frequency body		
Mean	jerk magnitude accelerometer data	-1 to 1	(none)
Frequency BodyBody	The standard deviation of the normalized		
Acceleration Jerk Magnitude -	frequency body jerk magnitude accelerometer		
Standard Deviation	data	-1 to 1	(none)
Frequency BodyBody	The frequency mean of the normalized		
Acceleration Jerk Magnitude -	frequency body jerk magnitude accelerometer		
Frequency Mean	data	-1 to 1	(none)
Frequency BodyBody Gyroscope	The mean of the normalized frequency body		
Magnitude - Mean	magnitude gyroscopic data	-1 to 1	(none)
Frequency BodyBody Gyroscope	The standard deviation of the normalized		
Magnitude - Standard Deviation	frequency body magnitude gyroscopic data	-1 to 1	(none)
Frequency BodyBody Gyroscope	The frequency mean of the normalized		
Magnitude - Frequency Mean	frequency body magnitude gyroscopic data	-1 to 1	(none)
Frequency BodyBody Gyroscope	The mean of the normalized frequency body		
Jerk Magnitude - Mean	jerk magnitude gyroscopic data	-1 to 1	(none)
Frequency BodyBody Gyroscope			
Jerk Magnitude - Standard	The standard deviation of the normalized		
Deviation	frequency body jerk magnitude gyroscopic data	-1 to 1	(none)
Frequency BodyBody Gyroscope			
Jerk Magnitude - Frequency	The frequency mean of the normalized		
Mean	frequency body jerk magnitude gyroscopic data	-1 to 1	(none)