Code Book

Field Name	Type	Description	Valid Values
activityLabel	String	Contains the possible activity labels of six activities that a person had engaged in.	WALKING, WALKING_UPSTAIRS, WALKING_DOWNSTAIRS, SITTING, STANDING, LAYING
Subject	Integer	Contains the number associated with the person in experiment.	1 through 30, representing the subject.
aveBodyAccelerometerTimeXaxis	Decimal	Contains the mean of body accelerometer3-axial raw signals for the X axis, time involves the capturing at a constant rate of 50 Hz.	normalized and bounded within [-1,1].
aveBodyAccelerometerTimeYaxis	Decimal	Contains the mean of the body accelerometer3-axial raw signals for the Y axis, time involves the capturing at a constant rate of 50 Hz.	normalized and bounded within [-1,1].
aveBodyAccelerometerTimeZaxis	Decimal	Contains the mean of the body accelerometer3-axial raw signals for the Z axis, time involves the capturing at a constant rate of 50 Hz.	normalized and bounded within [-1,1].
stdDevBodyAccelerometerTimeXAxis	Decimal	Contains the standard deviation of the body accelerometer3-	normalized and bounded within [-1,1].

		axial raw signals for the X axis, time involves the capturing at a constant rate of 50.	
stdDevBodyAccelerometerTimeYAxis	Decimal	Contains the standard deviation of the body accelerometer3-axial raw signals for the Y axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
stdDevBodyAccelerometerTimeZAxis	Decimal	Contains the standard deviation of the body accelerometer3-axial raw signals for the Z axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
aveGravityAccelerometerTimeXAxis	Decimal	Contains the mean of the gravity accelerometer3-axial raw signals for the X axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
aveGravityAccelerometerTimeYAxis	Decimal	Contains the mean of the gravity accelerometer3-axial raw signals for the Y axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
aveGravityAccelerometerTimeZAxis	Decimal	Contains the mean of the gravity accelerometer3-axial raw signals for the Z axis, time involves the capturing at a	normalized and bounded within [-1,1].

		constant rate of 50.	
stdDevGravityAccelerometerTimeXAxis	Decimal	Contains the standard deviation of the gravity accelerometer3-axial raw signals for the X axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
stdDevGravityAccelerometerTimeYAxis	Decimal	Contains the standard deviation of the gravity accelerometer3-axial raw signals for the Y axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
stdDevGravityAccelerometerTimeZAxis	Decimal	Contains the standard deviation of the gravity accelerometer3-axial raw signals for the Z axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
aveBodyAccelerometerJerkTimeXAxis	Decimal	Contains the mean of the gravity accelerometer3-axial raw signals for the X axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
aveBodyAccelerometerJerkTimeYAxis	Decimal	Contains the mean of the gravity accelerometer3-axial raw signals for the Y axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
aveBodyAccelerometerJerkTimeZAxis	Decimal	Contains the mean of the gravity	normalized and bounded within [-1,1].

		accelerometer3-axial raw signals for the Z axis, time involves the capturing at a constant rate of 50.	
standardDevBodyAccJerkTimeXaxis	Decimal	Contains the standard deviation of the gravity accelerometer3-axial raw signals for the X axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
standardDevBodyAccJerkTimeYaxis	Decimal	Contains the standard deviation of the gravity accelerometer3-axial raw signals for the Y axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
standardDevBodyAccJerkTimeZaxis	Decimal	Contains the standard deviation of the gravity accelerometer3-axial raw signals for the Z axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
aveBodyGyroscopeTimeXaxis	Decimal	Contains the mean of the body gyroscope3-axial raw signals for the X axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
aveBodyGyroscopeTimeYaxis	Decimal	Contains the mean of the body gyroscope3-axial raw signals for the Y axis, time	normalized and bounded within [-1,1].

		involves the capturing at a constant rate of 50.	
aveBodyGyroscopeTimeZAxis	Decimal	Contains the mean of the body gyroscope3-axial raw signals for the Z axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
stdDevBodyGyroscopeTimeXaxis	Decimal	Contains the standard deviation of the body gyroscope3-axial raw signals for the Z axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
stdDevBodyGyroscopeTimeYaxis	Decimal	Contains the standard deviation of the body gyroscope3-axial raw signals for the Y axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
stdDevBodyGyroscopeTimeZaxis	Decimal	Contains the standard deviation of the body gyroscope3-axial raw signals for the Z axis, time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
aveBodyGyrosopeJerkTimeXaxis	Decimal	Contains the mean of the body gyroscope3-axial raw signals for the X axis, jerk time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].

aveBodyGyrosopeJerkTimeYaxis	Decimal	Contains the mean of the body gyroscope3-axial raw signals for the Y axis, jerk time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
aveBodyGyrosopeJerkTimeZaxis	Decimal	Contains the mean of the body gyroscope3-axial raw signals for the Z axis, jerk time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
stdDevBodyGyrosopeJerkTimeXaxis	Decimal	Contains the standard deviation of the body gyroscope3-axial raw signals for the X axis, jerk time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
stdDevBodyGyrosopeJerkTimeYaxis	Decimal	Contains the standard deviation of the body gyroscope3-axial raw signals for the Y axis, jerk time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
stdDevBodyGyrosopeJerkTimeZaxis	Decimal	Contains the standard deviation of the body gyroscope3-axial raw signals for the Z axis, jerk time involves the capturing at a constant rate of 50.	normalized and bounded within [-1,1].
aveBodyAccelerometerMagitudeTime	Decimal	Contains the mean of the body accelerometer	normalized and bounded within [-1,1].

		magnitude, time involves the capturing at a constant rate of 50.	
stdDevBodyAcceleromeMagnitudeTime	Decimal	Contains the standard deviation of the body accelerometer magnitude, time involves the capturing at a constant rate of 50	normalized and bounded within [-1,1].
aveBodyGravityMagitudeTime	Decimal	Contains the mean of the body gravity magnitude, time involves the capturing at a constant rate of 50	normalized and bounded within [-1,1].
stdDevBodyGravityMagnitudeTime	Decimal	Contains the sandard deviation of the body gravity magnitude, time involves the capturing at a constant rate of 50	normalized and bounded within [-1,1].
aveBodyAccelerometerJerkMagitudeTime	Decimal	Contains the mean of the body gravity magnitude, jerk time involves the capturing at a constant rate of 50	normalized and bounded within [-1,1].
stdDevBodyAccelerometerJerkMagitudeTime	Decimal	Contains the standard deviation of the body gravity magnitude, time involves the capturing at a constant rate of 50	normalized and bounded within [-1,1].
aveBodyGyroscopeMagnitudeTime	Decimal	Contains the mean of the body gyroscope magnitude, time involves the capturing at a constant rate of 50	normalized and bounded within [-1,1].

stdDevBodyGyroscopeMagnitudeTime	Decimal	Contains the standard deviation of the body gyroscope magnitude, time involves the capturing at a constant rate of 50	normalized and bounded within [-1,1].
aveBodyGyroscopeJerkMagitudeTime	Decimal	Contains the mean of the body gyroscope magnitude, jerk time involves the capturing at a constant rate of 50	normalized and bounded within [-1,1].
stdDevBodyGyroscopeJerkMagitudeTime	Decimal	Contains the standard deviation of the body gyroscope magnitude, jerk time involves the capturing at a constant rate of 50	normalized and bounded within [-1,1].
aveBodyAccelerometerFFTxAxis	Decimal	Contains the mean of the body accelerometer with Fast Fourier Transform applied for the X axis.	normalized and bounded within [-1,1].
aveBodyAccelerometerFFTyAxis	Decimal	Contains the mean of the body accelerometer with Fast Fourier Transform applied for the Y axis.	normalized and bounded within [-1,1].
aveBodyAccelerometerFFTzAxis	Decimal	Contains the mean of the body accelerometer with Fast Fourier Transform applied for the Z axis.	normalized and bounded within [-1,1].
stdDevBodyAccelerometerFFTxAxis	Decimal	Contains the standard deviation of the body accelerometer with Fast Fourier	normalized and bounded within [-1,1].

		Transform applied for the X axis.	
stdDevBodyAccelerometerFFTyAxis	Decimal	Contains the standard deviation of the body accelerometer with Fast Fourier Transform applied for the Y axis.	normalized and bounded within [-1,1].
stdDevBodyAccelerometerFFTzAxis	Decimal	Contains the standard deviation of the body accelerometer with Fast Fourier Transform applied for the Z axis.	normalized and bounded within [-1,1].
aveBodyAccelerometerJerkFFTfreqXaxis	Decimal	Contains the mean of the body accelerometer with Fast Fourier Transform applied for the X axis with frequency.	normalized and bounded within [-1,1].
aveBodyAccelerometerJerkFFTfreqYaxis	Decimal	Contains the mean of the body accelerometer with Fast Fourier Transform applied for the Y axis with frequency.	normalized and bounded within [-1,1].
aveBodyAccelerometerJerkFFTfreqZaxis	Decimal	Contains the mean of the body accelerometer with Fast Fourier Transform applied for the Z axis with frequency.	normalized and bounded within [-1,1].
stdDevBodyAccelerometerJerkFFTfreqXaxis	Decimal	Contains the standard deviation of the body accelerometer with Fast Fourier Transform applied for the X axis with frequency.	normalized and bounded within [-1,1].

stdDevBodyAccelerometerJerkFFTfreqYaxis	Decimal	Contains the standard deviation of the body accelerometer with Fast Fourier Transform applied for the Y axis with frequency.	normalized and bounded within [-1,1].
stdDevBodyAccelerometerJerkFFTfreqZaxis	Decimal	Contains the standard deviation of the body accelerometer with Fast Fourier Transform applied for the Z axis with frequency.	normalized and bounded within [-1,1].
aveBodyGyroscopeFFTxAxis	Decimal	Contains the mean of the body gyroscope with Fast Fourier Transform applied for the X axis.	normalized and bounded within [-1,1].
aveBodyGyroscopeFFTyAxis	Decimal	Contains the mean of the body gyroscope with Fast Fourier Transform applied for the Y axis.	normalized and bounded within [-1,1].
aveBodyGyroscopeFFTzAxis	Decimal	Contains the mean of the body gyroscope with Fast Fourier Transform applied for the Z axis.	normalized and bounded within [-1,1].
stdDevBodyGyroscopeFFTxAxis	Decimal	Contains the standard deviation of the body gyroscope with Fast Fourier Transform applied for the X axis.	normalized and bounded within [-1,1].
stdDevBodyGyroscopeFFTyAxis	Decimal	Contains the standard deviation of the body gyroscope with Fast Fourier Transform	normalized and bounded within [-1,1].

		applied for the Y axis.	
stdDevBodyGyroscopeFFTzAxis	Decimal	Contains the standard deviation of the body gyroscope with Fast Fourier Transform applied for the Z axis.	normalized and bounded within [-1,1].
aveBodyAccelerometerMagnitude	Decimal	Contains the mean of the body accelerometer with magnitude	normalized and bounded within [-1,1].
stdDevBodyAccelerometerMagnitude	Decimal	Contains the standard deviation of the body accelerometer with magnitude	normalized and bounded within [-1,1].
aveBodyBodyAccelerometerJerkMagnitudeFFT	Decimal	Contains the mean of the body accelerometer jerk magnitude with Fast Fourier Transform applied.	normalized and bounded within [-1,1].
stdDevBodyBodyAccelerometerJerkMagnitudeFFT	Decimal	Contains the standard deviation of the body accelerometer jerk magnitude with Fast Fourier Transform applied.	normalized and bounded within [-1,1].
aveBodyBodyAccelerometerJerkMagnitudeFFT	Decimal	Contains the mean of the body body accelerometer jerk magnitude with Fast Fourier Transform applied.	normalized and bounded within [-1,1].
stdDevBodyBodyAccelerometerJerkMagnitudeFFT	Decimal	Contains the standard deviation of the body body accelerometer jerk magnitude with Fast Fourier Transform applied.	normalized and bounded within [-1,1].
aveBodyBodyGyroscopeMagnitudeFFT	Decimal	Contains the mean	normalized and bounded

		of the body body gyroscope jerk magnitude with Fast Fourier Transform applied.	within [-1,1].
stdDevBodyBodyGyroscopeJerkMagnitudeFFT	Decimal	Contains the standard deviation of the body body gyroscope jerk magnitude with Fast Fourier Transform applied.	normalized and bounded within [-1,1].