FinalDataSet.txt Codebook. 81 variables

General notes:

1. Other than the variable "Subject" (integer) and "Activity" (factor), the rest of the variables are numeric and are normalized between -1 and +1.
2. To make the variables names more readable, these transforms were performed on them:
    a. mean() => Average
    b. std()=>StandarDeviation
    c. gyro()=>AngularVel

Variable Name	Description
Subject	The number of the subject who performed the activity or activities (1-30)
Activity	The activity performed by the volunteer during recording: WALKING, WALKING_UPSTAIRS, WALKING_DOWNSTAIRS, SITTING, STANDING, LAYING
tBodyAcc-Average-X	Time domain average body linear acceleration in the x-axis
tBodyAcc-Average-Y	Time domain average body linear acceleration in the y-axis
tBodyAcc-Average-Z	Time domain average body linear acceleration in the z-axis
tBodyAcc-StandarDev-X	Time domain standard deviation of body linear acceleration in the x-axis
tBodyAcc-StandarDev-Y	Time domain standard deviation of body linear acceleration in the y-axis
tBodyAcc-StandarDev-Z	Time domain standard deviation of body linear acceleration in the z-axis
tGravityAcc-Average-X	Time domain average linear acceleration due to gravity in the x-axis
tGravityAcc-Average-Y	Time domain average linear acceleration due to gravity in the y-axis
tGravityAcc-Average-Z	Time domain average linear acceleration due to gravity in the z-axis
tGravityAcc-StandarDev-X	Time domain standard deviation of linear acceleration due to gravity in the x-axis
tGravityAcc-StandarDev-Y	Time domain standard deviation of linear acceleration due to gravity in the y-axis
tGravityAcc-StandarDev-Z	Time domain standard deviation of linear acceleration due to gravity in the z-axis
tBodyAccJerk-Average-X	Time domain average jerk of body linear acceleration in the x-axis
tBodyAccJerk-Average-Y	Time domain average jerk of body linear acceleration in the y-axis
tBodyAccJerk-Average-Z	Time domain average jerk of body linear acceleration in the z-axis
tBodyAccJerk-StandarDev-X	Time domain standard deviation of the jerk of the linear body acceleration in the x-axis

tBodyAccJerk-StandarDev-Y	Time domain standard deviation of the jerk of the linear body acceleration in the y-axis
tBodyAccJerk-StandarDev-Z	Time domain standard deviation of the jerk of the linear body acceleration in the z-axis
tBodyAngularVel-Average-X	Time domain average angular velocity in the x-axis
tBodyAngularVel-Average-Y	Time domain average angular velocity in the y-axis
tBodyAngularVel-Average-Z	Time domain average angular velocity in the z-axis
tBodyAngularVel-StandarDev-X	Time domain standard deviation of the angular velocity in the x-axis
tBodyAngularVel-StandarDev-Y	Time domain standard deviation of the angular velocity in the y-axis
tBodyAngularVel-StandarDev-Z	Time domain standard deviation of the angular velocity in the z-axis
tBodyAngularVelJerk-Average-X	Time domain average jerk of angular velocity in the x-axis
tBodyAngularVelJerk-Average-Y	Time domain average jerk of angular velocity in the y-axis
tBodyAngularVelJerk-Average-Z	Time domain average jerk of angular velocity in the z-axis
tBodyAngularVelJerk-StandarDev-X	Time domain standard deviation of the jerk of angular velocity in the x-axis
tBodyAngularVelJerk-StandarDev-Y	Time domain standard deviation of the jerk of angular velocity in the y-axis
tBodyAngularVelJerk-StandarDev-Z	Time domain standard deviation of the jerk of angular velocity in the z-axis
tBodyAccMag-Average	Time domain average Euclidean norm of linear acceleration
tBodyAccMag-StandarDev	Time domain standard deviation of Euclidean norm of linear acceleration
tGravityAccMag-Average	Time domain average Euclidean norm of acceleration due to gravity
tGravityAccMag-StandarDev	Time domain standard deviation of Euclidean norm of acceleration due to gravity
tBodyAccJerkMag-Average	Time domain average Euclidean norm of jerk of linear acceleration
tBodyAccJerkMag-StandarDev	Time domain standard deviation of Euclidean norm of jerk of linear acceleration
tBodyAngularVelMag-Average	Time domain average Euclidean norm of angular velocity
tBodyAngularVelMag-StandarDev	Time domain standard deviation of Euclidean norm of angular velocity
tBodyAngularVelJerkMag-Average	Time domain average Euclidean norm of the jerk of angular velocity
tBodyAngularVelJerkMag-StandarDev	Time domain standard deviation of Euclidean norm of the jerk of angular velocity
fBodyAcc-Average-X	Frequency domain average body linear acceleration in the x-axis
fBodyAcc-Average-Y	Frequency domain average body linear acceleration in the y-axis
fBodyAcc-Average-Z	Frequency domain average body linear acceleration in the z-axis
fBodyAcc-StandarDev-X	Frequency domain standard deviation of body linear acceleration in the x-axis

fBodyAcc-StandarDev-Y	Frequency domain standard deviation of body linear acceleration in the y-axis
fBodyAcc-StandarDev-Z	Frequency domain standard deviation of body linear acceleration in the z-axis
fBodyAcc-AverageFreq-X	Frequency domain average linear acceleration due to gravity in the x-axis
fBodyAcc-AverageFreq-Y	Frequency domain average linear acceleration due to gravity in the y-axis
fBodyAcc-AverageFreq-Z	Frequency domain average linear acceleration due to gravity in the z-axis
fBodyAccJerk-Average-X	Frequency domain average jerk of linear acceleration in the x-axis
fBodyAccJerk-Average-Y	Frequency domain average jerk of linear acceleration in the y-axis
fBodyAccJerk-Average-Z	Frequency domain average jerk of linear acceleration in the z-axis
fBodyAccJerk-StandarDev-X	Frequency standard deviation of jerk of body linear acceleration in the x-axis
fBodyAccJerk-StandarDev-Y	Frequency standard deviation of jerk of body linear acceleration in the y-axis
fBodyAccJerk-StandarDev-Z	Frequency standard deviation of jerk of body linear acceleration in the z-axis
fBodyAccJerk-AverageFreq-X	???
fBodyAccJerk-AverageFreq-Y	???
fBodyAccJerk-AverageFreq-Z	???
fBodyAngularVel-Average-X	Frequency domain average of angular velocity in the x-axis
fBodyAngularVel-Average-Y	Frequency domain average of angular velocity in the y-axis
fBodyAngularVel-Average-Z	Frequency domain average of angular velocity in the z-axis
fBodyAngularVel-StandarDev-X	Frequency domain standard deviation of angular velocity in the x-axis
fBodyAngularVel-StandarDev-Y	Frequency domain standard deviation of angular velocity in the y-axis
fBodyAngularVel-StandarDev-Z	Frequency domain standard deviation of angular velocity in the z-axis
fBodyAngularVel-AverageFreq-X	???
fBodyAngularVel-AverageFreq-Y	???
fBodyAngularVel-AverageFreq-Z	???
fBodyAccMag-Average	Frequency Domain average Euclidean norm of linear acceleration
fBodyAccMag-StandarDev	Frequency Domain standard deviation Euclidean norm of linear acceleration
fBodyAccMag-AverageFreq	???
fBodyBodyAccJerkMag-Average	Frequency Domain average Euclidean norm of jerk of linear acceleration
fBodyBodyAccJerkMag-StandarDev	Frequency Domain standard deviation Euclidean norm of jerk linear acceleration
fBodyBodyAccJerkMag-AverageFreq	???
fBodyBodyAngularVelMag-Average	Frequency Domain average Euclidean norm of angular velocity

fBodyBodyAngularVelMag-StandarDev	Frequency Domain standard deviation Euclidean norm of angular velocity
fBodyBodyAngularVelMag-AverageFreq	???
fBodyBodyAngularVelJerkMag-Average	Frequency Domain average Euclidean norm of the jerk of angular velocity
fBodyBodyAngularVelJerkMag-StandarDev	Frequency Domain standard deviation Euclidean norm of jerk of angular velocity
fBodyBodyAngularVelJerkMag-AverageFreq	???