## **Variables**

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| **X\_test** | Stores the values of the X\_test.txt File |
| **colname** | Stores the values of the names of the measurements from the features.txt file |
| **Y\_test** | Stores the values of the Y\_test.txt File |
| **Subject\_test** | Stores the values of the subject\_test.txt File |
| **Test \_data** | Combines the values of all the test data to create a understandable test data set |
| **X\_train** | Stores the values of the X\_train.txt File |
| **Y\_train** | Stores the values of the Y\_train.txt File |
| **Subject\_train** | Stores the values of the Subject\_train.txt File |
| **Full\_data** | Stores the Test and training data sets in a single data set. |
| **Filtered\_names** | Extracts the column names with mean and standard deviation values |
| **Filtered\_Data** | Data set containing the means and standard deviations for all the subjects and activities |
| **Activity\_names** | Extracts the Activity names from the activity\_labels.txt File for adding the descriptive activity names in the data set. |
| **Tidy\_data** | Final result set containing the resultant tidy data as per the requirement |