

README

Human Activity Recognition Using Smartphones Data Analysis

Description: This analysis was carried out using the dataset from the Human Activity Recognition Using Smartphones experiment. The goal is to prepare a tidy dataset by merging training and test datasets, extracting specific measurements, naming activities descriptively, and labeling the dataset with descriptive variable names.

Dataset: The dataset is derived from experiments with 30 subjects performing various activities with a smartphone on their waist. More details can be found in the Codebook.

Steps:

1. Merged the training and test datasets.
2. Extracted measurements related to mean and standard deviation.
3. Used descriptive activity names for the activities.
4. Labeled the dataset with descriptive variable names.
5. Created a tidy dataset with the average of each variable for each activity and each subject.

Files:

- **run_analysis.R:** R script that performs the data transformation.
- **combined_dataset.csv:** Combined dataset after merging training and test datasets.
- **tidy_dataset.txt:** Tidy dataset with the average of each variable for each activity and each subject.
- **Codebook:** Describes the variables, data, and transformations.