# Dataset Name: Human Activity Recognition with Smartphones

# Description: The UCI Human Activity Recognition Dataset is a popular benchmark dataset used for developing and evaluating machine learning models for human activity recognition .It contain data collected from accelerometers and gyroscope of a smartphone worn on the waist by 30 different subject as they perform six different activities .The dataset was collected to help in identifying the activities a person is engaged in based on sensor data .The six activities are:

# Walking

# Walking Upstairs

# Walking Downstairs

# Sitting

# Standing

# Laying

**Dataset Details:**

* Number of Instances:10,929 instances
* Number of Attributes:561 features
* Data Source: Data was collected using the embedded accelerometer and gyroscope sensor in a smartphone
* Data Collection Duration: Data was collected over a period of several seconds while subjects performed various activity.
* Data Format: The data is stored in both training and testing sets.
* Data Preprocessing: The dataset has been preprocessed, and the sensor signals have been processed to obtain feature vectors.
* Features: The features are a combination of time-domain and frequency-domain signals obtained from the accelerometer and gyroscope data.

**Dataset Link:** <https://www.kaggle.com/datasets/uciml/human-activity-recognition-with-smartphones>