

Data Set Information:

Data Set Characteristics:	Univariate	Number of Instances:	17389
Attribute Characteristics:	Integer, Real	Number of Attributes:	12
Associated Tasks:	Regression	Missing Values?	N/A

Bike sharing systems are new generation of traditional bike rentals where whole process from membership, rental and return back has become automatic. Through these systems, user is able to easily rent a bike from a particular position and return back at another position. Currently, there are about over 500 bike-sharing programs around the world which is composed of over 500 thousand bicycles. Today, there exists great interest in these systems due to their important role in traffic, environmental and health issues.

Apart from interesting real-world applications of bike sharing systems, the characteristics of data being generated by these systems make them attractive for the research. Opposed to other transport services such as bus or subway, the duration of travel, departure and arrival position is explicitly recorded in these systems. This feature turns bike sharing system into a virtual sensor network that can be used for sensing mobility in the city. Hence, it is expected that most of important events in the city could be detected via monitoring these data.

Attribute Information:

- **Season :**
 - 1 : *winter*
 - 2 : *spring*
 - 3 : *summer*
 - 4 : *fall*
- **Yr :**
 - 0 : 2011
 - 1 : 2012
- **Mnth :** (1 to 12)
- **Hr :** hour (0 to 23)
- **Holiday :** weather day is holiday or not
- **Weekday :** day of the week
- **Workingday :** if day is neither weekend nor holiday is 1, otherwise is 0.
- **Weathersit :**
 - *Clear, Few clouds, Partly cloudy, Partly cloudy*
 - *2: Mist + Cloudy, Mist + Broken clouds, Mist + Few clouds, Mist*
 - *3: Light Snow, Light Rain + Thunderstorm + Scattered clouds, Light Rain + Scattered clouds*

- 4: *Heavy Rain + Ice Pallets + Thunderstorm + Mist, Snow + Fog*
- **Temp** : Normalized temperature in Celsius.
 - **Atemp** : Normalized feeling temperature in Celsius.
 - **Hum** : Normalized humidity
 - **Windspeed** : Normalized wind speed
 - **Cnt (the target)** : count of total rental bikes including both casual and registered