Bike Sharing Dataset

# Description

This dataset contains the hourly count of rental bikes between years 2011 and 2012 in Capital bikeshare system with the corresponding weather and seasonal information.

# Source

This dataset is part of the UC Irvine Machine Learning Repository and is available here: <https://archive.ics.uci.edu/ml/datasets/Bike+Sharing+Dataset>

# Format

17389 observations with 16 attributes:

* instant: record index
* dteday : date
* season : season (1:spring, 2:summer, 3:fall, 4:winter)
* yr : year (0: 2011, 1:2012)
* mnth : month ( 1 to 12)
* hr : hour (0 to 23)
* holiday : whether day is holiday or not (extracted from [Web Link])
* weekday : day of the week (0=Sunday, 6=Saturday)
* workingday : if day is neither weekend nor holiday is 1, otherwise is 0.
* weathersit :
  + 1: 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. The values are derived via (t-t\_min)/(t\_max-t\_min), t\_min=-8, t\_max=+39 (only in hourly scale)
* atemp: Normalized feeling temperature in Celsius. The values are derived via (t-t\_min)/(t\_max-t\_min), t\_min=-16, t\_max=+50 (only in hourly scale)
* hum: Normalized humidity. The values are divided to 100 (max)
* windspeed: Normalized wind speed. The values are divided to 67 (max)
* casual: count of casual users
* registered: count of registered users
* cnt: count of total rental bikes including both casual and registered