Bikeshare Rental System in Washington DC

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Definition

Dataset:

This dataset comprises of data from Bike Sharing Company related to Bike usage over the year 2011 & 2012 in Capital bikeshare system in Washington, DC .

Problem Definition:

This is a supervised learning exercise and regression or classification models can be used to solve the problem.

Column Attributes:

There are 730 records for each day.
instant: record index
dteday : date
season : season (1 :winter, 2:spring, 3:summer, 4:fall)
yr : year (0: 2011, 1:2012)
mnth : month (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 :

- 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