



Bike Sharing

Donated on 12/19/2013

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

Dataset Characteristics

Multivariate

Subject Area

Social Science

Associated Tasks

Regression

Feature Type

Integer, Real

Instances

17389

Features

13

Dataset Information



Additional Information

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 ar...

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Has Missing Values?

No

Introductory Paper



[Event labeling combining ensemble detectors and background knowledge](#)

By Hadi Fanaee-T, João Gama. 2013

Published in Progress in Artificial Intelligence

Variables Table



Variable Name	Role	Type	Description	Units	Missing Values
instant	ID	Integer	record index		no
dteday	Feature	Date	date		no
season	Feature	Categorical	1:winter, 2:spring, 3:summer, 4:fall		no
yr	Feature	Categorical	year (0: 2011, 1: 2012)		no
mnth	Feature	Categorical	month (1 to 12)		no
hr	Feature	Categorical	hour (0 to 23)		no
holiday	Feature	Binary	weather day is holiday or not (extracted from http://dchr.dc.gov/page/holiday-schedule)		no
weekday	Feature	Categorical	day of the week		no
workingday	Feature	Binary	if day is neither weekend nor holiday is 1, otherwise is 0		no
weathersit	Feature	Categorical	- 1: Clear, Few clouds, Partly cloudy, Partly cloudy		no
temp	Feature	Continuous	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)	C	no
atemp	Feature	Continuous	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)	C	no
hum	Feature	Continuous	Normalized humidity. The values are divided to 100 (max)		no
windspeed	Feature	Continuous	Normalized wind speed. The values are divided to 67 (max)		no

Variable Name	Role	Type	Description	Units	Missing Values
casual	Other	Integer	count of casual users		no
registered	Other	Integer	count of registered users		no
cnt	Target	Integer	count of total rental bikes including both casual and registered		no

Rows per page 25 ▾ 0 to 17 of 17 < >

Additional Variable Information ^

Both hour.csv and day.csv have the following fields, except hr which is not available in day.csv

- instant: record index...

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Dataset Files ^

File	Size
hour.csv	1.1 MB
day.csv	56.2 KB
Readme.txt	5.5 KB

Papers Citing this Dataset ^

 SORT BY YEAR, DESC

[Recurrent Neural Networks for Time Series Forecasting](#)

By G'abor Petneh'azi. 2019

Published in

[VINE: Visualizing Statistical Interactions in Black Box Models](#)

By Matthew Britton. 2019

Published in ArXiv.

[Recurrent Neural Networks for Time Series Forecasting](#)

By Gábor Petneházi. 2019

Published in ArXiv.

[Anchor regression: heterogeneous data meets causality](#)

By Dominik Rothenhausler, Nicolai Meinshausen, Peter Buhlmann, Jonas Peters. 2018

Published in

[Preventing Failures Due to Dataset Shift: Learning Predictive Models That Transport](#)

By Adarsh Subbaswamy, Peter Schulam, Suchi Saria. 2018

Published in AISTATS.

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0 to 5 of 12



Reviews



5.0



(1 rating)

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Creators



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