





# **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

**Associated Tasks** 

Regression

# Instances

17389

**Subject Area** 

Social Science

**Feature Type** 

Integer, Real

# Features

13

### **Dataset Information**

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### **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**

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### Event labeling combining ensemble detectors and background knowledge

By Hadi Fanaee-T, João Gama. 2013

Published in Progress in Artificial Intelligence

### **Variables Table**

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Variable Name	Role	Туре	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)	С	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)	С	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

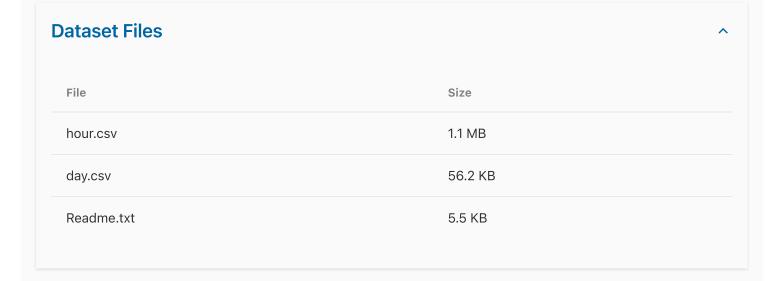
Variable Name	Role	Туре	Description	Units	Missing Values	
casual	Other	Integer	count of casual users		no	
registered	Other	Integer	count of registered users		no	
cnt	Target	Integer	count of total rental bikes including both casual and registered		no	
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### **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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## **Papers Citing this Dataset**



### **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 Published in

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

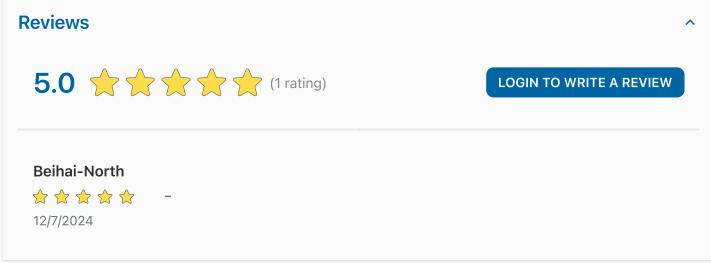
### Preventing Failures Due to Dataset Shift: Learning Predictive Models That Transport

By Adarsh Subbaswamy, Peter Schulam, Suchi Saria. 2018 Published in AISTATS.

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### Creators

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### DOI

### 10.24432/C5W894

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