

# Predictive Analysis of Bike-share Rental Demand

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# Overview

1 Data Source

2 Background

3 Equations

4 Findings

The data for this project came from a Kaggle competition prompting the application of Machine Learning tools to predict bike share rental demand.

**datetime** - hourly date + timestamp

**season** - 1 = spring, 2 = summer, 3 = fall, 4 = winter

**holiday** - whether the day is considered a holiday

**workingday** - whether the day is neither a weekend nor holiday

**weather** - 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 Pellets + Thunderstorm + Mist, Snow + Fog

**temp** - temperature in Celsius

**atemp** - "feels like" temperature in Celsius

**humidity** - relative humidity

**windspeed** - wind speed

**casual** - number of non-registered user rentals initiated

**registered** - number of registered user rentals initiated

**count** - number of total rentals

## Context

# Bullet Points

- Lorem ipsum dolor sit amet, consectetur adipiscing elit
- Aliquam blandit faucibus nisi, sit amet dapibus enim tempus eu
- Nulla commodo, erat quis gravida posuere, elit lacus lobortis est, quis porttitor odio mauris at libero
- Nam cursus est eget velit posuere pellentesque
- Vestibulum faucibus velit a augue condimentum quis convallis nulla gravida

# Existing Research

## Block 1

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer lectus nisl, ultricies in feugiat rutrum, porttitor sit amet augue. Aliquam ut tortor mauris. Sed volutpat ante purus, quis accumsan dolor.

## Block 2

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## Block 3

Suspendisse tincidunt sagittis gravida. Curabitur condimentum, enim sed venenatis rutrum, ipsum neque consectetur orci, sed blandit justo nisi ac lacus.

## Block 4

# Multiple Columns

## Heading

- ① Statement
- ② Explanation
- ③ Example

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer lectus nisl, ultricies in feugiat rutrum, porttitor sit amet augue. Aliquam ut tortor mauris. Sed volutpat ante purus, quis accumsan dolor.

# Table

Treatments	Response 1	Response 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

Table: Table caption



# Theorem

Theorem (Mass–energy equivalence)

$$E = mc^2$$

# Verbatim

Example (Theorem Slide Code)

```
\begin{frame}  
\frametitle{Theorem}  
\begin{theorem}[Mass--energy equivalence]  
$E = mc^2$  
\end{theorem}  
\end{frame}
```

# Figure

Uncomment the code on this slide to include your own image from the same directory as the template .TeX file.

# Citation

An example of the `\cite` command to cite within the presentation:

This statement requires citation [Smith, 2012].

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# References



John Smith (2012)

Title of the publication

*Journal Name* 12(3), 45 – 678.

# The End