

Milestone 1 – Unsupervised Learning

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ABSTRACT

The purpose of this work is to explore the environmental data collected by various U.S. Federal Government Agencies from two cities (San Juan, Puerto Rico and Iquitos, Peru) to gain a better understanding of the Dengue Spread Phenomena. These data are from a competition of the site DrivenData. Training data will be used. The overall objective is to use unsupervised learning techniques to make a preliminary exploration of the data and to extract conclusions from discarded elements, etc. The specific objectives are as follows:

- (1) Identification of outliers elements (weeks) in the dataset.
- (2) Use clustering algorithms to identify groups and characterize them.
- (3) (optional) Feature Selection using clustering algorithms.

CCS CONCEPTS

- **Computing methodologies → Machine learning.**

KEYWORDS

machine learning, ml, unsupervised

ACM Reference Format:

Maciej Nalepa, Piotr Maliszewski, Gökay Iseri, and Basar Milli. 2020. Milestone 1 – Unsupervised Learning. In *Proceedings of ACM Conference (Conference'17)*. ACM, New York, NY, USA, 2 pages. <https://doi.org/10.1145/nnnnnnn.nnnnnnn>

1 INTRODUCTION

Introduce me please.

2 TABLES

To set a wider table, which takes up the whole width of the page's live area, use the environment **table*** to enclose the table's contents and the table caption. As with a single-column table, this wide table will "float" to a location deemed more desirable. Immediately following this sentence is the point at which Table 2 is included in the input file; again, it is instructive to compare the placement of the table here with the table in the printed output of this document.

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Conference'17, July 2017, Washington, DC, USA
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 ACM ISBN 978-x-xxxx-xxxx-x/YY/MM...\$15.00
<https://doi.org/10.1145/nnnnnnnn.nnnnnnn>

Table 1: Frequency of Special Characters

Non-English or Math	Frequency	Comments
\emptyset	1 in 1,000	For Swedish names
π	1 in 5	Common in math
\$	4 in 5	Used in business
Ψ_1^2	1 in 40,000	Unexplained usage

Always use midrule to separate table header rows from data rows, and use it only for this purpose. This enables assistive technologies to recognise table headers and support their users in navigating tables more easily.

3 MATH EQUATIONS

Figure 1: 1907 Franklin Model D roadster. Photograph by Harris & Ewing, Inc. [Public domain], via Wikimedia Commons. (<https://goo.gl/VLCRBB>).

ACKNOWLEDGMENTS

To Robert, for the bagels and explaining CMYK and color spaces.

A RESEARCH METHODS

A.1 Part One

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi malesuada, quam in pulvinar varius, metus nunc fermentum urna, id sollicitudin purus odio sit amet enim. Aliquam ullamcorper eu ipsum vel mollis. Curabitur quis dictum nisl. Phasellus vel semper risus, et lacinia dolor. Integer ultricies commodo sem nec semper.

A.2 Part Two

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B ONLINE RESOURCES

Nam id fermentum dui. Suspendisse sagittis tortor a nulla mollis, in pulvinar ex pretium. Sed interdum orci quis metus euismod, et sagittis enim maximus. Vestibulum gravida massa ut felis suscipit congue. Quisque mattis elit a risus ultrices commodo venenatis eget dui. Etiam sagittis eleifend elementum.

Table 2: Some Typical Commands

Command	A Number	Comments
<code>\author</code>	100	Author
<code>\table</code>	300	For tables
<code>\table*</code>	400	For wider tables

Nam interdum magna at lectus dignissim, ac dignissim lorem rhoncus. Maecenas eu arcu ac neque placerat aliquam. Nunc pulvinar massa et mattis lacinia.