

The report needs to have a title

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Abstract

The abstract is a single paragraph of 150-300 words, which summarizes your project, and can be read independently of the rest of the paper. The abstract should define the scope of the research project, the methods that were used, and the results and conclusions. It should also summarize the key discoveries.

1 Introduction

As done by ? and ?.

The introduction section should provide a brief description of the project, and a summary of the data, and a summary of the primary insights that were made during the project.

References should be used with the APA format. That can be done easily by using Bibtex with the apalike bibliography style. A reference to a bibliographic source in the text can be done using Ozsvath and Schücking (2001) or (Ellis, 1979).

If the name of the author of the paper is part of the sentence, the reference should be: Ozsvath and Schücking (2001) proposed a different cosmological model based on a rotating universe.

If the name of the author is not part of the sentence, the reference should be. In addition to the standard cosmological models, alternative cosmological models were proposed (Ozsvath and Schücking, 2001).

A reference to more than one source can be done by (Ozsváth and Schücking, 1962; Gödel, 1949).

The introduction section is a mandatory section that all reports must include. The rest of the report, except for the *Data* section, can include different sections.

2 Data

In this section you need to describe your data. The description should include the files, formats, size of the data (number of columns, rows in each file) and a description of each column/field. Each column should be described by specifying the data type and the distribution of the values. Visualization is also expected in the form of tables and/or figures. A simple table can be formatted as follows:

Column 1	Column 2	Column 3	Column 4	Column 5
0	9,655	64,092	10,862	84,609
0.05	14,746	104,339	21,098	140,183
0.1	12,142	67,712	13,797	93,651
0.15	7,757	33,957	8,360	50,074
>0.2	47,456	134,706	36,473	218,635
Total	91,965	406,185	90,899	589,049

Table 1: Each table must have a caption.

A simple figure can be formatted using the following syntax. You can use several image formats such as eps or jpeg, but pdf is preferred.

Any rendering or wrangling of the data should also be described.

3 Supervised machine learning analysis of X data

The rest of the sections should describe the data science tools and paradigms used, and the results and insights they led to.

This section should describe in details the methods that you developed and/or used. A method can be a certain existing software tool that you used, an equation, an algorithm, etc'. If you used existing methods, a reference to the papers that describe the methods is required.

The insights described in the report are also the

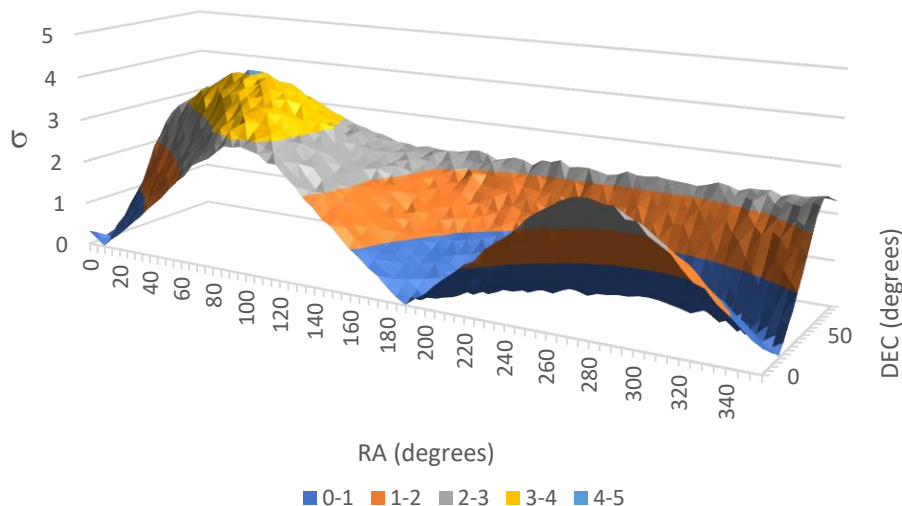


Figure 1: Each figure must have a caption

same insights described in the abstract and synopsis, but with far more details.

4 Conclusion

In this section you can provide a short summary of the conclusion of the work, and what you can conclude from your experience working on the data. That can include suggestions of improving the data, ideas to improve the analysis, or opportunities for future work and things that can be done in the future.

It should also discuss the weaknesses of the analysis, and things we cannot conclude from our results. You can also use the Conclusion section to discuss potential other uses of the work.

Acknowledgments

List here any person who assisted you in your work. Receiving help from others is basically allowed (and sometimes even encouraged) in this course, but please consult with me before asking for someone else's help.

References

- Ellis, G. (1979). The homogeneity of the universe. *General Relativity and Gravitation*, 11(4):281–289.
- Gödel, K. (1949). An example of a new type of cosmological solutions of einstein's field equations of gravitation. *Reviews of modern physics*, 21(3):447.
- Ozsváth, I. and Schücking, E. (1962). Finite rotating universe. *Nature*, 193(4821):1168–1169.
- Ozsvath, I. and Schücking, E. (2001). Approaches to gödel's rotating universe. *Classical and Quantum Gravity*, 18(12):2243.