Applied Machine Learning

Disease Symptom Prediction

Louis Simon Spatscheck, Aikaterini Vasilopoulou,
Léandre Pablo Delphin Göblyös, Dominik Pastuszka Malek

Abstract

The abstract for your project goes here. The length of the abstract should be between 200250 words. Tips for writing a good abstract can be found at `https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3136027/`.

Link to *GitHub* repository containing the dataset and all code developed for this project:

Applied Machine Learning - Disease Symptom Prevention (GitHub)

1. Introduction

This template is based on the Elsevier LaTeX template[1]. The information in this template is very minimal, and this file should serve you as a framework for writing your report. You may prefer to use a more collaboration-friendly tool while drafting the report with your class mates before you prepare the final report for submission. Remember that you should **submit both the report (PDF and tex files) and the Python codes** you used for this project via **itslearning**. Also, **only one member per team** needs to submit the project material.

This is an example of a mathematical equation:

$$f(\mathbf{x}; \mathbf{w}) = \sum_{i=1}^{n} w_{ixi}.$$

(1)

This is a mathematical expression, $h(\mathbf{x}) = \hat{y}$ formatted in text.

The project report should be **maximum 20 pages long (not counting references)** and should contain the sections that are already provided in this paper. Please check out the text in these sections for further information.

1.1. Subsection

You can use paragraphs or subsections to further structure your main sections. This is an example of a subsection.

This is a paragraph title. This is an example of a paragraph.

- Item number one.
- Item number two.

Email adresses: author1@student.sdu.dk, author2@student.sdu.dk, author3@student.sdu.dk, dpast24@student.sdu.dk

[1] `https://www.overleaf.com/latex/templates/elsevier-article-template-with-different-bibliography-styles/npwqmwvhvvrk`

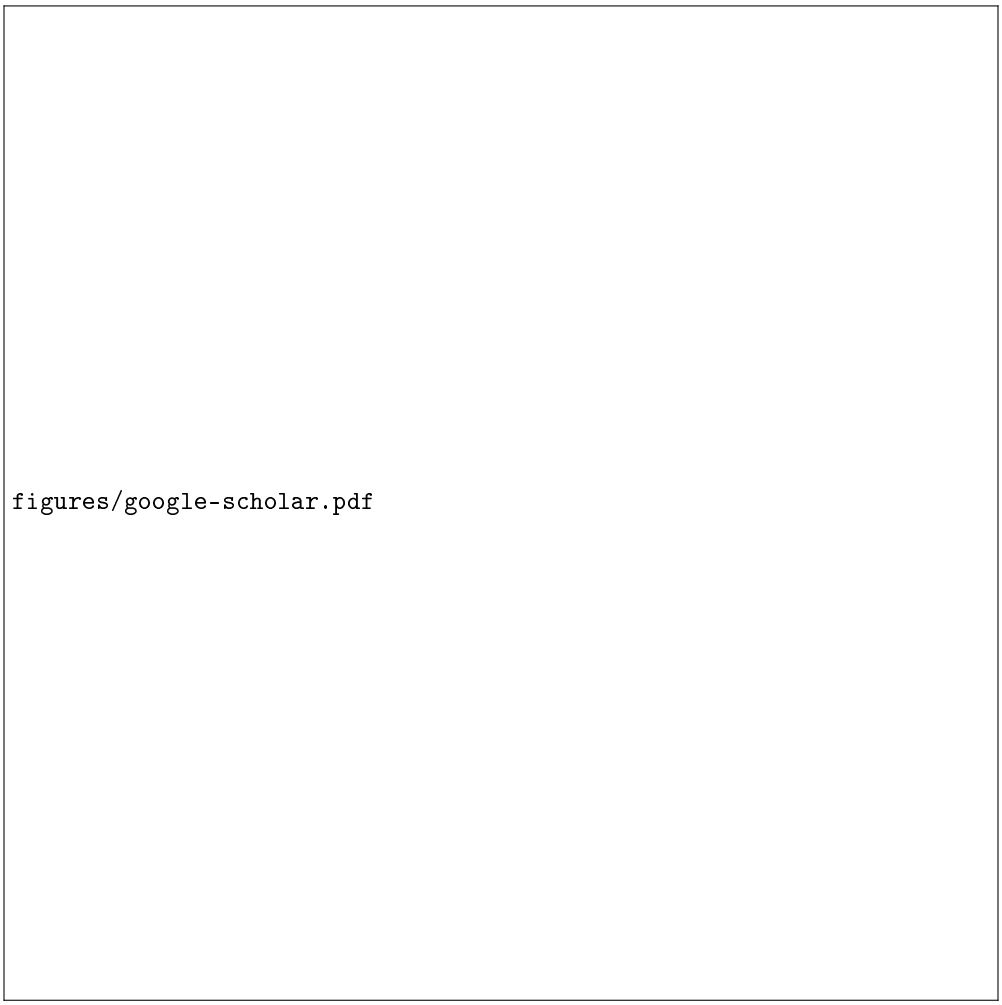

Figure 1: Example illustrating how to get BibTeX references from Google Scholar.

2. Related Work

Related work should be discussed here. This is an example of a citation. To format the citations properly, put the corresponding references into the **mybibfile.bib** file. You can obtain BibTeX-formatted references for the bibfile from Google Scholar (`https://scholar.google.com`), for example, by clicking on the double-quote character under a citation and then selecting as shown in Figure

Table 2 shows an example for formatting a table.

3. Proposed Method

Describe the method you are proposing, developing, or using. I.e., details of the algorithms may be included here.

4. Experiments

Describe the experiments you performed. You may want to create separate subsections to further structure this section.

Method	Accuracy
Method 1	70 ± 3 %
Method 2	76 ± 3 %

Table 1: This is an example of a table.

4.1. Dataset

Briefly describe your dataset in a separate subsection.

4.2. Software

Briefly list (and cite) software software you used.

4.3. Hardware

If relevant, list hardware resources you used.

5. Results and Discussion

Describe the results you obtained from the experiments and interpret them. Optionally, you could split Results and Discussion into two separate sections.

6. Conclusions

Describe your conclusions here. If there are any future directions, you can describe them here, or you can create a new section for future directions.

7. Acknowledgements

List acknowledgements if any. For example, if someone provided you a dataset, or you used someone else's resources, this is a good place to acknowledge the help or support you received.

8. Contributions

Describe the contributions of each team member who worked on this project.