# LATEX Template for Project Proposal (replace with your project title)

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- The information in this template is very minimal, and this file should serve you as a framework for writing your proposal. You may prefer to use a more collaboration-friendly tool while drafting the report with your classmates before you prepare the final report for submission. Remember that you only need to turn in the PDF file on Canvas. Also, only one member per team needs to submit the project proposal.
- The project proposal is a 2-3 page document excluding references<sup>1</sup>.
- You are encouraged (not required) to use 1-2 figures to illustrate technical concepts.
- The proposal must be formatted and submitted as a PDF document on Canvas (the submission deadline will be later announced on Canvas.
- Please check out the text in the sections below for further information.

## 1. Introduction

In this section, describe what you are planning to do. Also, briefly describe related work.

## 1.1. Notes about Citations

When discussing related work, do not forget to include appropriate references. This is an example of a citation [1]. To format the citations properly, put the corresponding references into the "bibliography.bib" file. You can obtain BibTeX-formatted references for the "bib" file from Google Scholar (https://scholar.google.com), for example, by clicking on the double-quote character under a citation and then selecting "BibTeX" as shown in Figure 1 and Figure 2.

To avoid plagiarism, any sentence that is copied from other articles or sources (internet, papers, etc.) must be put in quotation marks. The next sentence provides and example that uses an existing sentence verbatim.

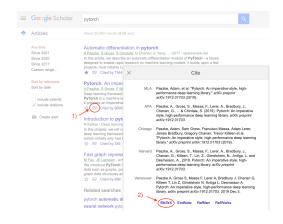


Figure 1. Example illustrating how to get BibTeX references from Google Scholar as a 1-column figure.

According to [1], "The development of machine learning algorithms that operate on a set of values (as opposed to a single value) at a time is also commonly known as vectorization."

Direct quotes should be used sparingly, and it is usually better to rephrase sentences in your own words. The next sentence provides an example.

Vectorization is a programming approach utilizing functions that operate on multiple values simultaneously to speed up computation [1].

## 1.2. Notes about Figures

Figure 1 shows an example of a 1-column figures.

You can create two-column figures, too, as shown in Figure 2. Please not that you can reuse figures from other papers or lecture material, but for every figure that is not your own, you have to include the "Source" as shown in Figure 3.

#### 2. Motivation

Describe why your project is interesting. E.g., you can describe why your project could have a broader societal impact. Or, you may describe the motivation from a personal learning perspective.

<sup>&</sup>lt;sup>1</sup>This means, references should of course be included but do not count towards the page limit

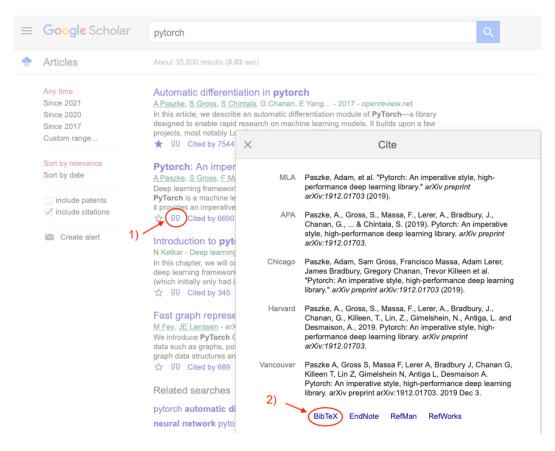


Figure 2. Example of a 2-column figure.

# 3. Evaluation

What would the successful outcome of your project look like? In other words, under which circumstances would you consider your project to be successful?

How do you measure success, specific to this project, from a technical standpoint?

#### 4. Resources

Describe what resources you are planning to use (datasets, computer hardware, computational tools, etc.)?

## 5. Contributions

You are expected to share the workload evenly, and every group member is expected to participate in both the experiments and writing. (As a group, you only need to submit one proposal and one report, though. However, you will need to work together and coordinate your efforts.)

Clearly indicate what computational and writing tasks each member of your group will be participating in.

# References

[1] S. Raschka, J. Patterson, and C. Nolet. Machine learning in python: Main developments and technology trends in data science, machine learning, and artificial intelligence. *Information*, 11(7):345, 2020.