

## Research Project Description

Your task will be to choose a topic related to the subject area you chose in part 1 of the project, and create an overview / summary of the current or most recent research on this topic. Optionally, you may also produce an original implementation in the language(s) in the language of your choice of some of the ideas you find in your research.

## Requirements

- Choose a topic in your chosen subject area.
- Write a 5 – 7 page overview / summary of current or most recent research on this topic. You may also want to have a short introduction to the topic at the beginning before diving into research. Think of this paper as a quick primer for someone who is interested in researching this topic and doesn't know where to start reading.
- Use 3 – 10 academic sources. A good place to look is the university library website or arXiv.org, which has an open access repository of CS papers.
- You must use LaTeX in conjunction with BibTeX to write and cite your papers, respectively. This is a standard way of producing a CS or mathematics research paper, so it is a good skill to learn. If you are not writing code, this is one of the main takeaways I would like for you to have from doing this project. Feel free to use sites like Overleaf to aid you in creating your TeX documents.
- *Optional:* Create a relevant coding project that showcases or demonstrates ideas found during your research. If this is completed, the length of your paper must only be 3 – 5 pages. **DO NOT COPY CODE FOR THIS!** Academic code is easily found on the internet, and you will get caught.

## Grading

This project will be graded based on the following criteria:

- 20 points: Writing and grammar
- 20 points: Sources and citation
- 20 points: Content and readability
- 20 points: LaTeX used, and how well it was used
- 20 points: BibTeX used, and how well it was used
- 20 bonus points: Code component