

CSCI 1430 Final Project Report:

Your project title

Team name: First member, second member, third member, fourth member.

TA name: HERE PLEASE. Brown University

Abstract

This document is a template for your final project reports, presented in a conference-paper style. It is slightly-more complicated LaTeX, but not much more complex than the earlier project reports. This document, along with your code, any supplemental material, and your 2-minute presentation, are qualitatively what determines your grade.

1. Project Report Advice [Delete This Section]

1. Overriding principle: show us your effort.
2. If you wish us to consider any aspect of your project, it should be presented here.
3. Please include a problem statement, related work, your method, your results (figures! tables!), any comparison to existing techniques, and references.
4. If you made something work—great! If you didn't quite make it work—tell us about the problems, why you think it didn't work, and what you would do to fix it.
5. Length: Approximately four pages for technical description. For social impact, no more than one page total.
6. Please include an appendix to the report which details what each team member contributed to the project. One paragraph max each.
7. Any other materials should go in an appendix.

2. Introduction

Introduce the problem that you are trying to solve. Why is it difficult? Briefly what approach will you take? What difference would it make if it were solved?

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3. Related Work

Cite and discuss work that you used in your project, including any software used. Citations are written into a .bib file in BibTeX format, and can be called like this: Alpher et al. [1]. Here's a brief intro: [webpage](#). *Hint:* `$> pdflatex %docu, bibtex %docu, pdflatex %docu, pdflatex %docu`

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4. Method

Describe the problem in a compact way. What was your approach to solving it? Include diagrams to help understanding. For instance, if you used a CNN, what was the architecture? Include equations as necessary, e.g., Pythagoras' theorem (Eq. 1):

$$x^2 + y^2 = z^2, \quad (1)$$

where x is the 'adjacent edge' of a right-angled triangle, y is the 'opposite edge' of a right-angled triangle, and z is the hypotenuse.

My code snippet highlights an interesting point.

```
1 one = 1;
2 two = one + one;
3 if two != 2
4     disp( 'This computer is broken.' );
5 end
```

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Method	Frobnability
Theirs	Frumpy
Yours	Frobbly
Ours	Makes one's heart Frob

Table 1. Results. Please write an explanatory caption that makes the table/figure self-contained.

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5. Results

Present the results of the changes. Include code snippets (just interesting things), figures (Figures 1 and 2), and tables (Table 1). Assess computational performance, accuracy performance, etc. Further, feel free to show screenshots, images; videos will have to be uploaded separately to Gradescope in a zip. Use whatever you need.

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Figure 1. Single-wide figure.

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5.1. Technical Discussion

What about your method raises interesting questions? Are there any trade-offs? What is the right way to think about the changes that you made?

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6. Conclusion

What you did, why it matters, what the impact is going forward.



Figure 2. Double-wide figure. *Left:* My result was spectacular. *Right:* Curious.

References

- [1] A. Alpher, J. P. N. Fotheringham-Smythe, and G. Gamow. Can a machine frobnicate? *Journal of Foo*, 14(1):234–778, 2004. **1**

Appendix

Team contributions

Please describe in one paragraph per team member what each of you contributed to the project.

Person 1 (put your real names) Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur.

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