Project Title

## Team Members

**Page Limit: 7 pages – This is a hard limit. I don’t want to read a lot of pages!**

This is a template. The page limits on the individual sections are suggestions.

# Introduction [1 page]

This should essentially be a summary of your entire report. Try to write a couple of lines answering each of the following questions.

1. What is the general problem and why is it useful? E.g. Question Answering is an important NLP problem because  ...
2. What is the specific problem you are studying? E.g. 4th grade science exams.
3. What existing solutions can be applied? What is missing from them?
4. What are you proposing as a fix/extension?
5. What results were you able to achieve?
6. What are the main conclusions?

# Problem Statement [0.5 page]

Clearly specify the problem you are solving. What are the inputs and outputs?

Give an example and specify what is good output.

# Baseline Solution [1.5 page]

Describe the baseline solution you implemented. Use a high-level component diagram to describe the architecture.

1. What are the main components?
2. Clearly specify the input and output for each component.
3. Provide details on how each component works. If a component is implementing a particular feature or scoring function described in a paper, present the main equation or description that will help someone else implement the feature easily. Note you can follow the notation and terminology used in the original paper.

What are the key deficiencies with this solution?

# Your Extension [1 page]

Describe your extensions and explain how they address the deficiencies in the previous solution.

If you are implementing a new feature or a scoring function describe it well enough for someone else to be able to implement it.

# Evaluation [2 pages]

1. Describe the experimental setup
   1. What dataset did you use? How big was it?
   2. Did you do any manual annotations?
   3. What are the evaluation measures you used? Why did you choose these?
   4. Did you do cross-validation or train/test split?
2. Present the baseline results in a table or a figure.
   1. Describe what the rows and columns in the table mean.
   2. Provide a caption to the table with this information.
3. Describe the results and present an error analysis
   1. Describe what the major types of errors are.
   2. Show how the error analysis of the baseline system points to the issues you mention as key deficiencies.
4. Present the results of your extension.
   1. Say what the numbers imply. For example, say something like “the extension we proposed worked well compared to the baseline by x%”.
5. Describe the results and present an error analysis.

# Conclusions [0.5 page]

What should one conclude from your project?

* This should be something that is either a positive or a negative conclusion w.r.t. your extension.
* Do the experiments provide evidence that your extension is useful or not?
* What are other main things you learnt from the project?