

- Your project proposal is due by email to `natalies@cs.unc.edu` by 11:59pm on Tuesday March 19, 2024.
- You only need to submit one document per group. Please cc all members of your group on the email so that everyone gets credit for completing the proposal.
- Feel free to write as much as you need to address the following about your project. For example, a paragraph is probably sufficient for each section.
- You do not need to use this LaTeX template, but please ultimately submit a PDF.

## 1 Title

What is the title of your project?

## 2 Group Members

Who are the group members working on the project?

## 3 Abstract

Write a 3-5 sentence summary of the main idea of your project. For example,

*Cats are a very common animal on earth. Despite their abundance, the distribution of time they spend sleeping and napping is not well characterized. Here we present DeepCat, a state-of-the-art deep learning approach for learning the transitions of a cat between sleeping and napping. We evaluate our algorithm on three open source cat datasets and achieve superior performance in two out of the three datasets.*

## 4 Formal Statement of the Problem

What is the problem you are trying to solve? Why is it important for people to care about?

## 5 Related Work

What is some related work to your problem of interest? If there is no relevant related work, explain the work that caused you to be curious about the question that you are asking.

## 6 Contributions

State your main contributions. What do you expect to show with your work?

## 7 Datasets

What dataset will you use to evaluate your method or contribution?

## 8 Intended Experiments

Can you come up with 1-2 computational experiments that you will do to evaluate your approach?

## 9 Expected Challenges

Are there any aspects of what you are proposing that you expect to be particularly challenging?

## 10 Implementation

What code will you provide at the end? What will be the inputs and outputs of your code? How will you share your code?

## 11 Preliminary Results

Share any preliminary results that you have. If you don't have any, write a brief timeline for your implementation and experiments.