

- Your project is due on canvas by noon on May 3.
- You only need to submit one document per group.
- 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.
- Aim to have  $\sim 2$  figures and or tables to report your results.

## 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 Introduction

### 4.1 Problem Motivation

Tell us why we care about your problem.

### 4.2 Previous work focused on solving this problem

Give examples of related work and a high-level understanding of how these methods work.

### 4.3 Limitations of previous work

While previous approaches did X, they could not effectively do Y.

## 5 Statement of Contributions

In this paper, we developed X. The contributions of X can be summarized as follows.....(You can state computational contributions or applications on dataset contributions).

## 6 Methods

### 6.1 Notation

We always define our notation!

### 6.2 Problem Formulation

Use mathematical notation here to describe what you are talking about.

### 6.3 Description of your method

Fill in the details here!

### 6.4 Schematic illustration of your method

Draw us a ‘Figure 1’ that summarized your method and paper contributions.

## 7 Results

Overall, aim for 2 (or more!) figures and or tables to illustrate your results.

### 7.1 Datasets

Describe the details for any datasets you used.

### 7.2 Baselines

What kinds of baselines did you compare your results to?

### 7.3 Description of Experiments

Describe the experiments (such as metrics that you used to evaluate your results). Point us to the figures or tables that contain these results.

## 8 Discussion

### 8.1 Recap

Remind the readers what your goal was and what you did.

### 8.2 Observations

What did your method teach you/ help you to accomplish? How do the results compare to those observed from the baselines?

### 8.3 Limitations and Future Work

What didn’t work well? What is still missing? What would you do if you had more time?

## 8.4 Inspiring Concluding Paragraph

Leave us with some inspiration about what your work uncovered and why it is changing the world.