Final Project Proposal

Definitions

Team name: Dancing Queen

Team members: Jason Senthil, Neev Parikh, Nimish Garg, Ryan Greenblatt

Note: Once one person uploads the report to Gradescope, please add all other team members to the submission within the Gradescope interface (top right on your submission).

Project

- What is your project idea?
 Our project idea is to implement and possibly extend the work done in the paper Everybody Dance Now (2018, Chan et. al.)
- What data will you use?
 We will record our own video sources as data.
- What software/hardware will you use?
 We will likely write this in Pytorch and will use GPU compute for this project.
- What are the skills of the team members? Who will do what?
 Ryan has the most familiarity with the framework and the research paper. Neev,
 Nimish and Jason will spend a few days on background reading for this paper.
 The current idea is that we will split up and work on different parts of the pipelin e (data, GAN, pose estimation etc.) and will switch places so that everyone gets exposed to all the working parts.
- How will you know whether you have made progress? What will you measure? We plan on replicating the results of the paper and will use their metrics to measure performance.
- What problems do you foresee or have?
 We forsee problems in tuning the GANs and getting the hyperparameters right.
- Is there anything that we can do to help? E.G., resources, equipment.
 We would love it if we could get access to the Brown CS Grid computing cluster for this project.
- 2 pages max; feel free to include any media, references, etc. Link to paper: https://arxiv.org/abs/1808.07371