

Final Project Contribution
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In this project, I was in charge of and was the primary developer of everything Tensorflow related. As a rule of thumb, if the code contains underscores, I wrote it. The other two worked on the application, interface, research, and report writing. I developed the initial concept for the model we'd use to solve our problem, wrote the entire cross-validation and train code, wrote and maintained the model definitions, re-tooled the augmentation code to work with videos, and applied the models to the interface.

I felt like I took too much of the work to do, and it was entirely my fault. I was too aggressive with the work in this project. I had a lot of ideas regarding how to solve the problem at hand and at some point the others just threw their hands up and let me take control. They didn't intend to let it happen, and neither did I. They frequently asked how they could help. I did my best to divide the work, but I always felt they were two steps behind. It became a dilemma of whether I should take two steps back and explain my steps in detail or instead just finish the work myself. Selfishly, I decided to just finish the work myself.

As a representative example, I suggested they write the video augmentation library we'd use to augment our data. After some time, they'd written entire Python modules dedicated to cropping, rotating, brightening, and contrasting single images. They hadn't realized that the code they just implemented already existed in Tensorflow, and what I really needed was a function that augments every image in a video the same way. I ultimately just wrote the function myself.

I appreciate the other work my team put into the project, however. In the last two weeks of the project, I was swamped with finals, sibling graduation, jobs, and housing. I am extremely grateful that my team picked up my slack in writing. They did plenty of research and gave plenty of great ideas, built the foundation for the augmentation code, and wrote the majority of the final report when I had no time. In my next project I'll be more careful to take the project a little slower. Perhaps additional minds working on the code could have seen what I have missed and improved our models significantly.