

## Individual Contribution

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In the preparing phase, I did a large amount of online research to seek for a proper topic. My ideology is to find our group a distinct yet doable topic. I studied some papers on the topic of RNN and motions. Eventually, I landed in the idea of using the ancient game -- paper, rock, and scissor, infusing with the machine learning technologies to detect a series of motions.

In the early stage, I worked on generating our own dataset, especially classifying the data, which includes labeling two sets of three-thousand images. In the middle stage, I focused on building up the middleware which connect the user interface and the machine learning models. I built several augmentation modules which provides convenience for manipulating the raw data to become more fit for the CNN models.

In the final stage, I worked with my teammates trying to figure out what is wrong with our first model (it does work on training data but not validating model) I also worked with my teammates on the final report, in particular, I worked on the data section, techniques used, and discussion and conclusion part.