**What will you keep from the baseline?**

We plan to keep the preprocessing and the sobel edge detection feature extraction. Scrap clean and work from there.

**What will we do now?**

Clean up our random forest classifier and preprocessing from the baseline. Implement a more thorough preprocessing function that will filter all the images and get only the hand with the background abstracted out. Extract more useful features besides the sobel edge histogram. We are not sure which ones yet but we are actively looking.

**What will be our training strategy?**

We wanted to investigate a CNN implementation. However, we are very happy with the results from the Random Forest. If we begin to encounter problems where the scores are not as high as we expect them to be, then we will begin to investigate experimenting with other classifiers.

**APRIL 2 – APRIL 8:**

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| --- | --- |
| **Division of Tasks** | |
| Michael | Delete random features the Random Forest Classifier generated |
| Nikita | Look into more useful feature extractions |
| Rosemond | Delve into PyTorch and use another classifier |
| Trung | Rework preprocessing to account to monochromatic images |

**APRIL 9 – APRIL 17:**

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| --- | --- |
| **Division of Tasks** | |
| Michael | Use another feature extraction in conjunction with Nikita |
| Nikita | Implement feature extractions found & discuss results |
| Rosemond | Sample implementation of CNN, compare results |
| Trung | Think about what to do for off-center hands & account for it when running tests |

**APRIL 18:** ONE PAGE PROGRESS REPORT DUE.

**APRIL 19 – APRIL 22:**

|  |  |
| --- | --- |
| **Division of Tasks** | |
| Michael | Clean up code, add any final touches |
| Nikita | Clean up code help |
| Rosemond | Create presentation & report |
| Trung | Create presentation & report |

**APRIL 23:** IN CLASS PROJECT COMPETITION. PROJECT REPORT DUE.