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Project Title: Automated Cardiac Segmentation

Time Log From 3/04/2024-3/10/2024
4 Hours total

Date	Duration	Type	Description of completed work	Challenges and/or next steps
3/4	2 Hour	File Management	I wanted to make iterating through the data easier, so I decided to make a new directory filled with patient MRI images and also put a new directory with corresponding binary masks.	Code up preprocessing steps. Where I load the data into a pytorch data loader.
3/6	2 hours	Coding	I figured out an algorithm similar to what I used to make the masks that would hold pairs of an image and its mask. However, there was an error I couldn't seem to figure out where I would get a run time error. It was caused by the fact that some images have only one binary mask whereas others have between three and four.	Figure out a different way to load the data.

This Week's Reflection

      I haven't achieved much this week because of personal reasons, but my data and approaches seem good since they are producing something. I'm realizing preprocessing the data is going to be somewhat of a pain. This is mainly because I don't have a completely good understanding of how Pytorch works. But in the coming weeks, I should have a working neural network that has trained on my data and can segment left ventricular images.