Risk Mitigation for Personal Project

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| Risk | Effect | Likelihood | Severity | Mitigation |
| Having to build data set from scratch. | Can consume a huge amount of time. Possible preventing me from finishing on time. | Certain | High | I have already built a jig that can pull fabric though and allow me to take thousands on uniform pictures quickly (however may still need some tinkering with). I believe that I can find defects without the use of machine learning, this means that to build that dataset I do not need to find the defects by eye I just have to label them. |
| Not having enough time in second semester | Be stuck gathering data instead of coding. | Possible | Medium | As I have stated above, I think I have a method to reduce the time it takes to build a dataset. As I don’t need too much coding work to allow me to build the data set, I should be able to accomplish this in first semester. This should leave me enough time to do the bulk of the coding and write up in the second semester. |
| Not having enough narrow fabric to test and train with. | A data set that is not large enough | Unlikely | Medium | Even with a smaller data set I should be able to get some level of accuracy and as this would only affect the categorisation of defects not the detection half of my project would be unaffected. I already have over 200 feet (an estimate but I do have a lot) of fabric. More can be purchased cheaply. |
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