

Week	Dates	Objectives
1	May 24 – May 30	<ul> <li>Setup Python environment         <ul> <li>Pillow – Python image library</li> <li>pytesseract – OCR library</li> </ul> </li> <li>Run the test case</li> <li>Scrape the web for test images</li> </ul>
2	May 31 – June 6	<ul> <li>Evaluate performance         <ul> <li>Tool didn't recognize any text – Score 0</li> <li>Tool recognized some text – Score 1</li> <li>Tool recognized all text – Score 2</li> </ul> </li> <li>Preprocess images and re-evaluate         <ul> <li>Rescale images</li> <li>Increase contrast</li> <li>Binarize images</li> <li>Transform images</li> </ul> </li> </ul>
3	June 7 – June 13	<ul><li>Research and evaluate other text recognition tools</li><li>Test facial recognition tools</li></ul>
4	June 14 – June 20	<ul> <li>Wrap up de-identification work</li> <li>Begin clinical image project         <ul> <li>Setup TensorFlow</li> <li>Download Lung Images</li> </ul> </li> <li>Visit Innovation Studio Saturday, June 16</li> </ul>
5	June 21 – June 27	<ul> <li>Build CNN to count nodules</li> <li>Experiment with transfer learning from pretrained nets</li> <li>Drew out-of-town June 23 – July 1</li> </ul>
6	June 28 – July 4	<ul> <li>Drew out-of-town June 23 – July 1</li> <li>Continue model build/train</li> </ul>
7	July 5 – July 11	Continue lung nodule identification
8	July 12 – July 18	Finalize lung nodule model
9	July 19 – July 25	<ul> <li>Write up lung nodule model</li> <li>Visit Health Innovation Studio Saturday, July 21</li> </ul>
10	July 26 – Aug 1	Flex week
11	Aug 2 – Aug 8	<ul> <li>Visit Innovation Studio during the week to meet the team and present your work!</li> </ul>