Links

Data

* NIH
  + <https://www.nih.gov/news-events/news-releases/nih-clinical-center-provides-one-largest-publicly-available-chest-x-ray-datasets-scientific-community>
* COVID
  + <https://github.com/ieee8023/covid-chestxray-dataset>
  + <https://github.com/lindawangg/COVID-Net/>
* MD.ai
  + <https://public.md.ai/hub/projects/public>
* Openi
  + <https://openi.nlm.nih.gov/>

Models

* Segmentation
  + Mask R-CNN (<https://github.com/matterport/Mask_RCNN>)
    - Kaggle RSNA Pneumonia Detection Challenge > search “mask”
    - Modify model config and utils.Dataset scripts
    - <https://github.com/NovatecConsulting/SemanticSegmentation-Examples>
    - <https://www.kaggle.com/hmendonca/mask-rcnn-and-coco-transfer-learning-lb-0-155>
  + UNet
    - <https://github.com/dattran2346/chestX-ray-14>

Medical research and resources

* RSNA Journals
  + <https://pubs.rsna.org/2019-ncov>
* COVID-19 + Imaging AI Resources (Stanford)
  + https://aimi.stanford.edu/resources/software-tools

Tutorials

* <https://towardsdatascience.com/computer-vision-instance-segmentation-with-mask-r-cnn-7983502fcad1>
* <https://github.com/mdai/ml-lessons/>
* <https://www.pyimagesearch.com/2020/03/16/detecting-covid-19-in-x-ray-images-with-keras-tensorflow-and-deep-learning/>
* <https://www.analyticsvidhya.com/blog/2019/07/computer-vision-implementing-mask-r-cnn-image-segmentation/>