Useful Links

Code:

https://github.com/cmescobar/Lung_heart_source_separation

https://github.com/vivekkarn/classification-of-heart-sounds

https://github.com/tracy2811/heart-sound-classification

https://github.com/davidspringer/Springer-Segmentation-Code

https://github.com/egrooby-monash/Heart-and-Lung-Signal-Quality-Estimation

https://github.com/egrooby-monash/Heart-and-Lung-Sound-Separation

https://github.com/egrooby-monash/Heart-and-Lung-Signal-Quality-Estimation/blob/main/get_all_SQIs.m

https://github.com/tarek-hamid/respiration-rate-algorithm

https://github.com/BCML-KW/BCG_HeartRate_Respiration-1/blob/main/HR_RES_estimate.m

Articles:

https://biomedical-engineering-online.biomedcentral.com/articles/10.1186/s12938-015-0056-y

file:///C:/Users/Asus/Downloads/Study_and_Analysis_of_Electronic_Stethoscope_Signa.pdf

https://arxiv.org/ftp/arxiv/papers/2012/2012.06275.pdf

https://weichian0920.github.io/

http://www.scielo.org.co/scielo.php?script=sci_arttext&pid=S0120-62302012000300016

https://biosignal.uconn.edu/wp-content/uploads/sites/2503/2018/09/07_Nam_2016_JBHI.pdf

https://dergipark.org.tr/en/download/article-file/434150

https://www.hindawi.com/journals/tswj/2014/182938/

https://arxiv.org/pdf/2012.11759.pdf

https://www.degruyter.com/document/doi/10.1515/cdbme-2016-0054/html?lang=en

An article for heart sound classification:

https://www.nature.com/articles/s41597-020-0390-1

https://www.mdpi.com/2076-3417/10/11/3956

heart sound classification:

https://github.com/Gvith/Heart-Sound-Classification/blob/master/utils.py

https://github.com/Gvith/Heart-Sound-Classification/blob/master/ml_classifier.py

https://github.com/Gvith/Heart-Sound-Classification

https://github.com/tkseneee/Classification-of-Heart-Sound/blob/master/pcg_ML.ipynb

https://github.com/prasadm0re/Heart-Sound-Classification-CinC/blob/master/HB_Bidirectional_lstm.ipynb

good:

https://github.com/aptr288/Heart_Sound_Classification/blob/master/Audio%20Classification%20ANN%20CNN%20Keras/HeartbeatAudioClassification.ipynb

For reading audio files in python just like the format of reading them in MATLAB:

https://pypi.org/project/audiofile/

Denoising with fft:

https://www.arnevogel.com/denoising-functions-in-matlab-with-fft/

https://nl.mathworks.com/matlabcentral/answers/860165-remove-noise-using-fft-based-frequency-domain-filtering-method?s_tid=prof_contriblnk

https://nl.mathworks.com/matlabcentral/answers/1692420-how-to-remove-noise-from-the-signal-analyzed-by-fft

Collecting dataset:

https://www.kaggle.com/datasets/kinguistics/heartbeat-sounds?resource=download

https://physionet.org/content/circor-heart-sound/1.0.3/

http://www.peterjbentley.com/heartchallenge/

Implementing Heart Sound Classification with LSTM:

https://www.kaggle.com/search?q=heart+sound+classification+with+LSTM

https://www.kaggle.com/code/mychen76/heart-sounds-analysis-and-classification-with-lstm

https://www.kaggle.com/code/brsdincer/heartbeat-sounds-classification-analysis

https://www.kaggle.com/code/abdallahaboelkhair/heartbeat-sound-lstm-classification

https://www.kaggle.com/code/mayuramanawadu/heart-sounds-analysis-and-classification-with-lstm

https://www.kaggle.com/code/ahmedabbasi/heart-sounds-analysis-and-classification-with-lstm

https://www.kaggle.com/code/totalgood/heart-sounds-analysis-and-classification-with-lstm

https://www.kaggle.com/code/karimsaker/heartbeat-sound-lstm-classification

https://www.kaggle.com/code/mychen76/heart-sounds-analysis-and-classification-with-lstm

https://www.kaggle.com/code/brsdincer/heartbeat-sounds-classification-analysis

https://www.kaggle.com/code/osamaheikal/heartbeat-sound-lstm-classification-96

lung sound classification:

Codes:

https://www.kaggle.com/code/eatmygoose/cnn-detection-of-wheezes-and-crackles

Articles:

https://www.respiratorytherapyzone.com/breath-sounds-guide/

https://www.frontiersin.org/articles/10.3389/fmed.2021.714811/full

https://nabzgroup.com/mag/types-of-lung-sounds-primary

Fixing the problem of librosa plotting:

https://www.youtube.com/watch?v=PYlr8ayHb4g&t=32s

Heart Sound Abnormalities (YouTube):

https://www.youtube.com/watch?v=dBwr2GZCmQM

https://www.youtube.com/watch?v=QHJUKiW7tMg

https://www.youtube.com/watch?v=iTfxS7hjLrM

https://www.youtube.com/watch?v=mmHNTWQWWGw

https://www.youtube.com/watch?v=SZcAJVcbHaY

Lung Sound Abnormalities (YouTube):

https://www.youtube.com/watch?v=TlgP8MzlMaw

https://www.youtube.com/watch?v=KRtAqeEGq2Q

https://www.youtube.com/watch?v=1rve-sxs3Wk

https://www.youtube.com/watch?v=Z3uK3BgsqbY

https://www.youtube.com/watch?v=G3d7oW5dWcs