**Dataset Links:**

* <https://www.ismir.net/resources/datasets/>
* <https://mirdata.readthedocs.io/en/stable/source/quick_reference.html>
  + [MIRdata The Beatles Dataset](https://mirdata.readthedocs.io/en/latest/_modules/mirdata/datasets/beatles.html)
* [MedleyDB](https://medleydb.weebly.com/) (Same as Rachel Bittner’s below)

**Audio to MIDI:**

* [Basic Pitch](https://basicpitch.spotify.com/)
  + [Article on it](https://engineering.atspotify.com/2022/06/meet-basic-pitch/)

**Chord Predictor:**

* [ChordSuggester: using LSTMs to predict musical chord sequences | by Juan Luis García López | Medium](https://medium.com/@huanlui/chordsuggester-i-3a1261d4ea9e)
* [GitHub - keunwoochoi/lstm\_real\_book: LSTM source code to generate jazz chord progressions](https://github.com/keunwoochoi/lstm_real_book)

**Chord Extractor:**

* [python - How to Extract Individual Chords, Rests, and Notes from a midi file? - Stack Overflow](https://stackoverflow.com/questions/49339622/how-to-extract-individual-chords-rests-and-notes-from-a-midi-file)

**Rachel Bittner (Spotify Sr. Research Scientists from NYU) Links:**

* Tutorials:
  + <https://rachelbittner.weebly.com/tutorials-and-courses.html>
  + [Fundamental Frequency Estimation](http://ismir2018.ircam.fr/pages/events-tutorial-06.html)
  + [ISMIR Tutorials in 2021](https://ismir2021.ismir.net/tutorials/#5-programming-mir-baselines-from-scratch-three-case-studies)
  + [MedleyDB](https://medleydb.weebly.com/)

**Jazz Stuff:**

* [A Machine Learning Approach to Discover Rules for Expressive Performance Actions in Jazz Guitar Music](https://www.frontiersin.org/articles/10.3389/fpsyg.2016.01965/full)
* [BebopNet](https://towardsdatascience.com/bebopnet-neural-models-for-jazz-improvisations-4a4d723d0b60)
* [Machine Learning of Jazz Grammars](http://ai.stanford.edu/~kdtang/papers/cmj10-jazzgrammar.pdf)
* [Transfer Learning for Audio Waveform to Guitar Chord Spectrograms Using the Convolution Neural Network](https://www.hindawi.com/journals/misy/2022/8544765/)
* <https://www.researchgate.net/publication/332321102_Towards_CNN-based_Acoustic_Modeling_of_Seventh_Chords_for_Automatic_Chord_Recognition>
* <https://www.researchgate.net/publication/339320375_Deep_Learning-Based_Music_Chord_Family_Identification>
* <https://www.researchgate.net/publication/309209500_A_machine_learning_approach_to_ornamentation_modeling_and_synthesis_in_jazz_guitar>

**Random:**

* <https://research.atspotify.com/audio-intelligence/>
* [GuitarSet](https://guitarset.weebly.com/)
* [Corpus for Music Separation](https://zenodo.org/record/1117372#.Yzvi4-zMIUE)
* [Google’s Magenta](https://magenta.tensorflow.org/get-started)
  + [Colab Notebooks](https://magenta.tensorflow.org/demos/colab/)
  + [Web Apps](https://magenta.tensorflow.org/demos/web/)
* [MCT Blog](https://mct-master.github.io/)
  + Tooooons of cool projects to get inspirations from here
* [NYU Music and Experience Design Lab](https://musedlab.org/)
* <https://www.kaggle.com/code/ashkhagan/audio-signal-processing-librosa>
* <https://blog.paperspace.com/introduction-to-audio-analysis-and-synthesis/>
* [THANK YOU RICHA!](https://musicinformationretrieval.com/)
* [Our Book Website (Actually has Jupyter notebooks and stuff that are super helpful)](https://www.audiolabs-erlangen.de/fau/professor/mueller/bookFMP)
* [Brian McFee’s DST Book](https://brianmcfee.net/dstbook-site/content/intro.html)

**Helpful for the course:**

* <https://cds.nyu.edu/math-tools/>
* [Audio Signal Processing for Machine Learning Youtube Playlist](https://www.youtube.com/playlist?list=PL-wATfeyAMNqIee7cH3q1bh4QJFAaeNv0)

*Identifying chord rules*





