Librosa:

[**librosa**](https://librosa.org/doc/latest/core.html#module-librosa) is a python package for music and audio analysis. It provides the building blocks necessary to create music information retrieval systems.

pip install librosa

<https://github.com/librosa>

Essentia:

Essentia is an open-source C++ library with Python bindings for audio analysis and audio-based music information retrieval. It contains an extensive collection of algorithms, including audio input/output functionality, standard digital signal processing blocks, statistical characterization of data, a large variety of spectral, temporal, tonal, and high-level music descriptors, and tools for inference with deep learning models. Designed with a focus on optimization in terms of robustness, computational speed, low memory usage, as well as flexibility, it is efficient for many industrial applications and allows fast prototyping and setting up research experiments very rapidly.

pip install essential

<https://github.com/MTG/essentia>

Aubio:

aubio is a collection of tools for music and audio analysis.

This package integrates the aubio library with [NumPy](https://www.numpy.org/) to provide a set of efficient tools to process and analyse audio signals, including:

* read audio from any media file, including videos and remote streams
* high quality phase vocoder, spectral filterbanks, and linear filters
* Mel-Frequency Cepstrum Coefficients and standard spectral descriptors
* detection of note attacks (onset)
* pitch tracking (fundamental frequency estimation)
* beat detection and tempo tracking

aubio works with both Python 2 and Python 3.

pip install aubio

<https://aubio.org/>