

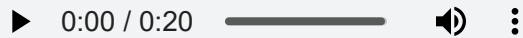
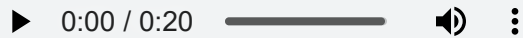
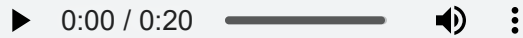
Predicting Lung disease using respiratory audio files

## Audio Processing

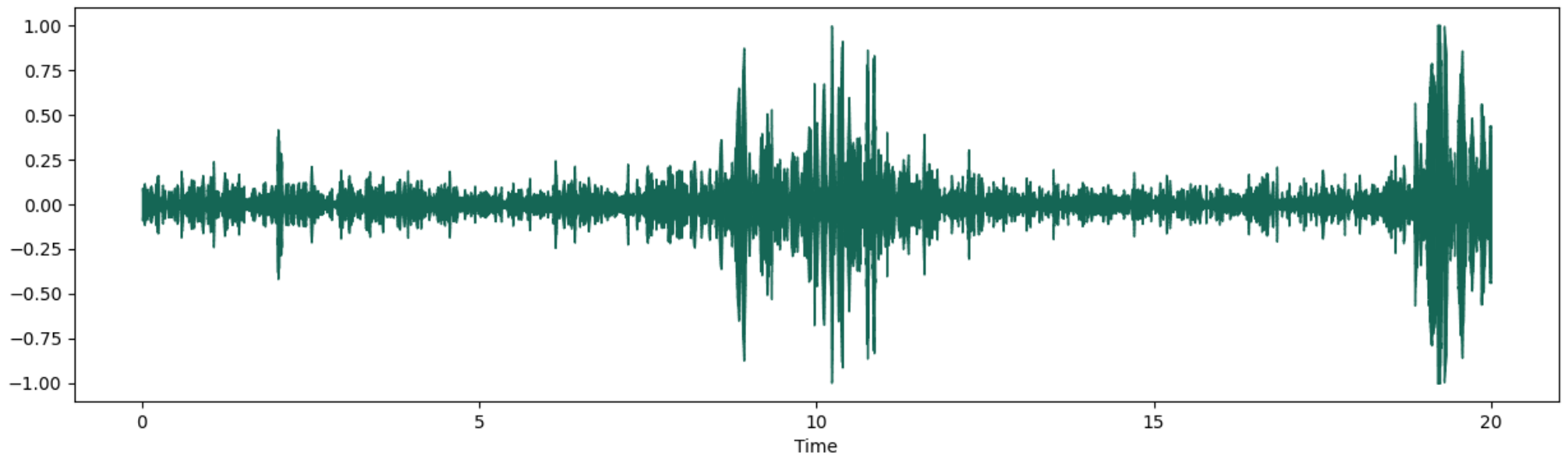
EDA on available data, i.e. audio files

### Bronchitis audios

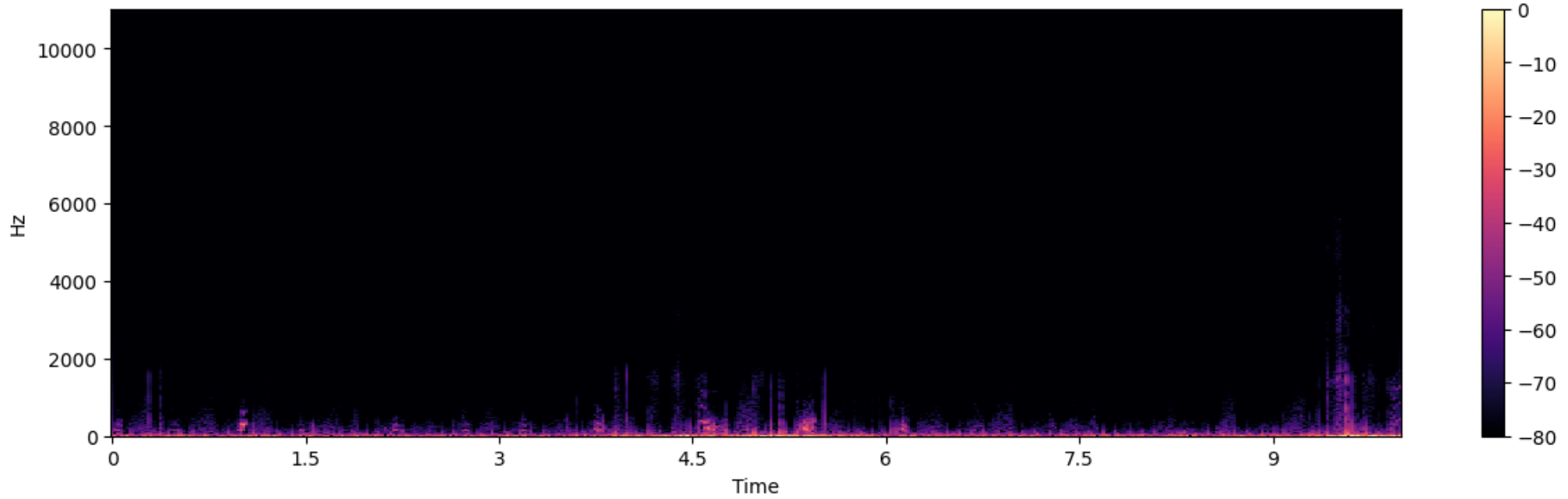
```
array([-0.06089456, -0.09060634, -0.07939702, ..., -0.2810878 ,  
       -0.27884707, -0.29470196], dtype=float32)
```

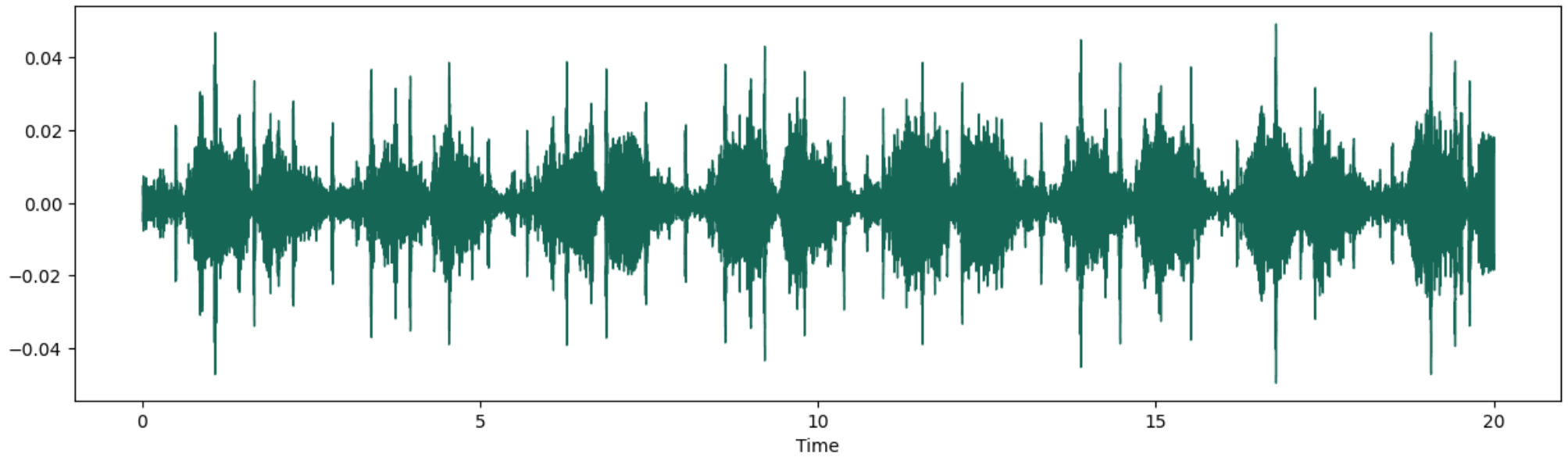
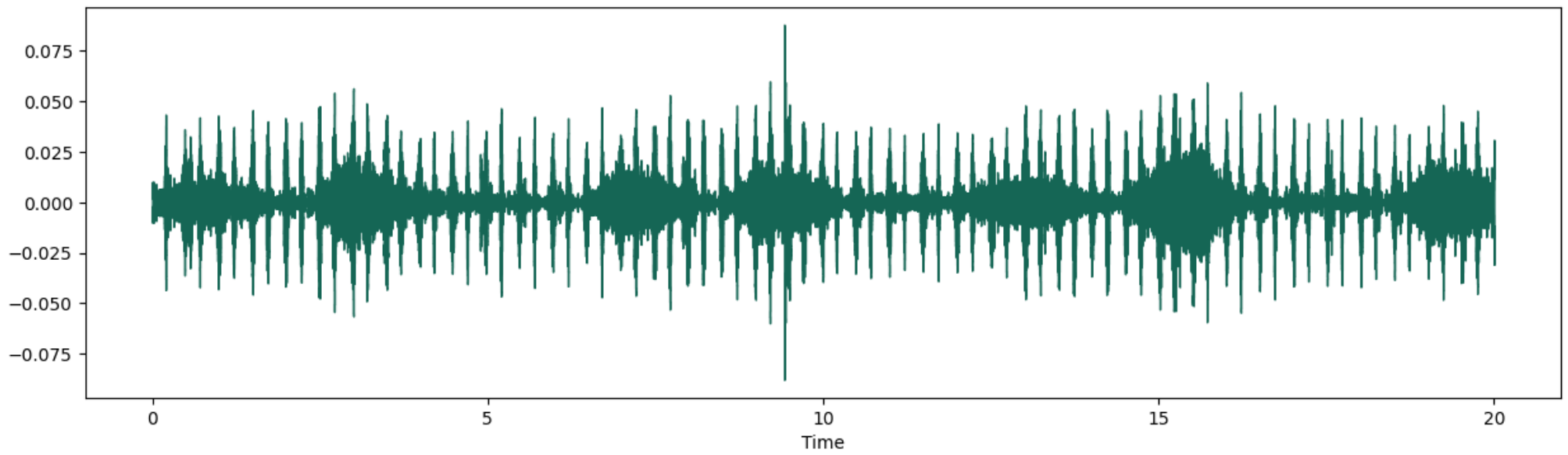


### Visualising



<matplotlib.colorbar.Colorbar at 0x284ebe8beb0>

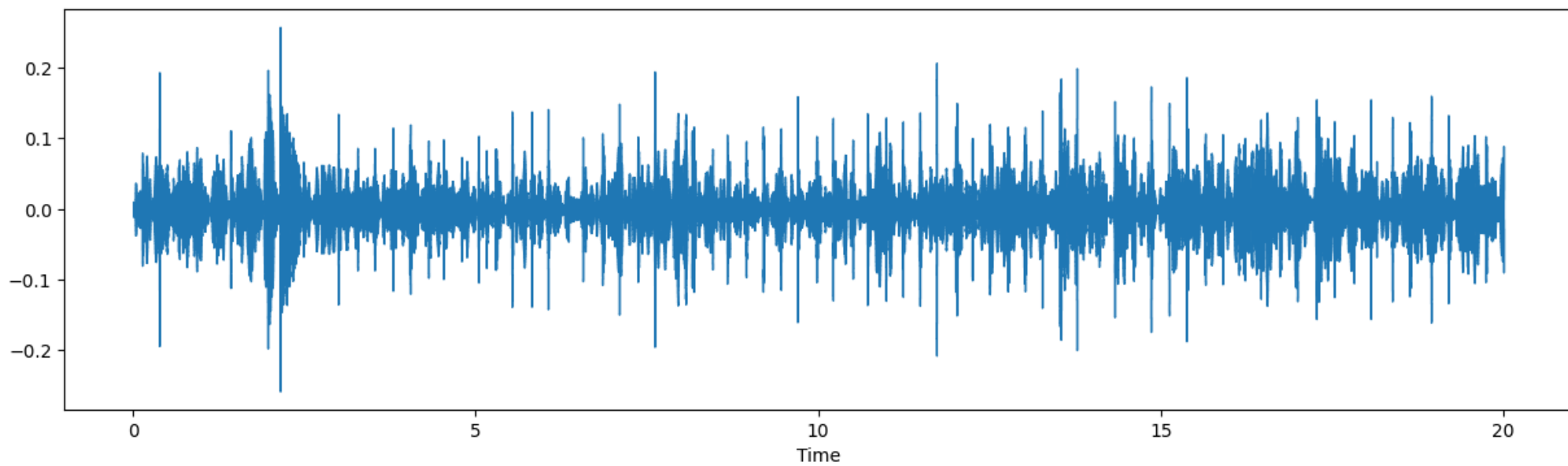


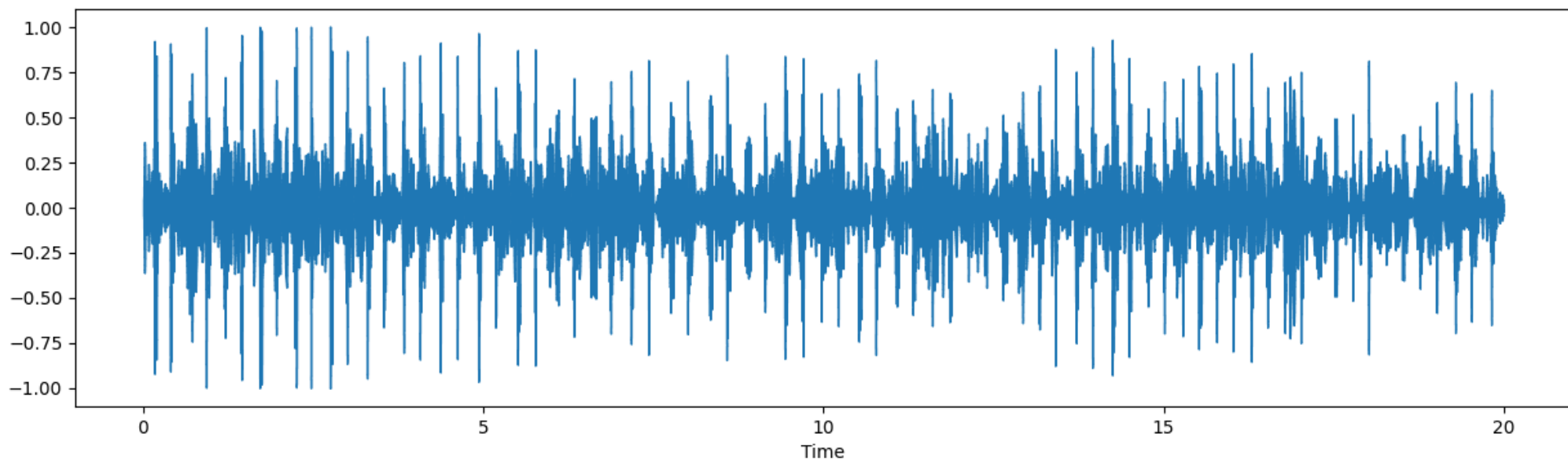
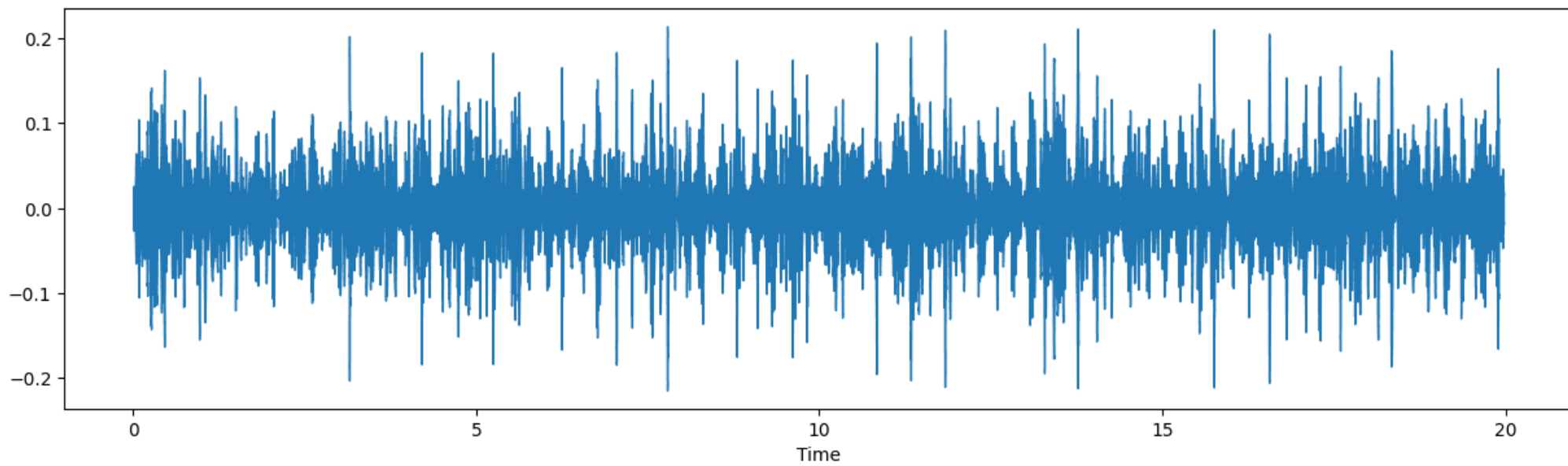


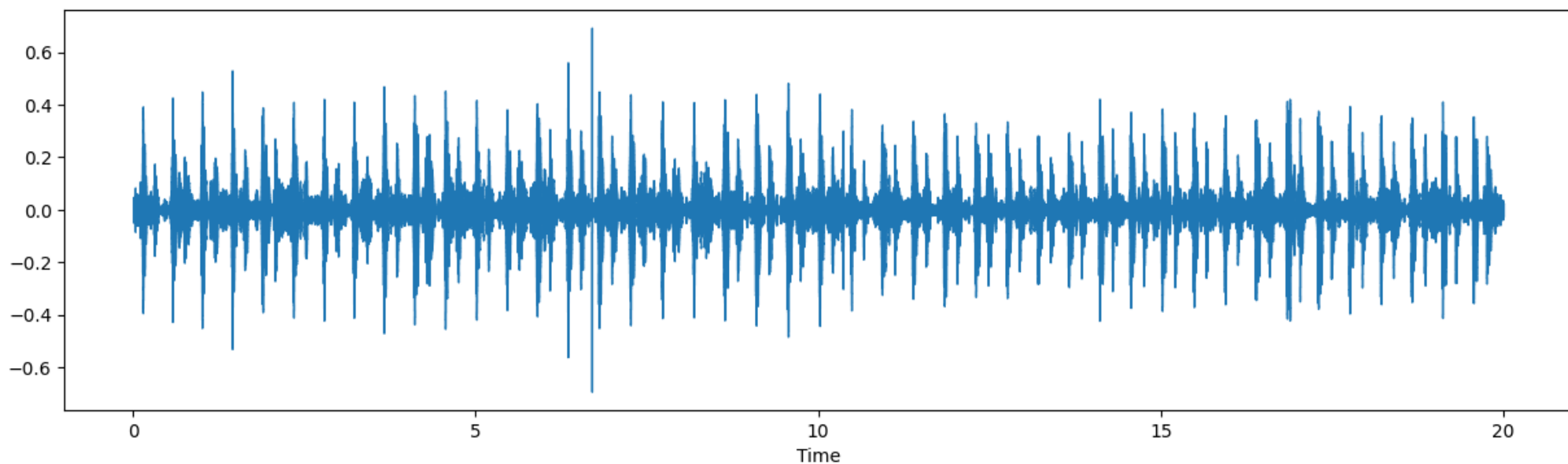
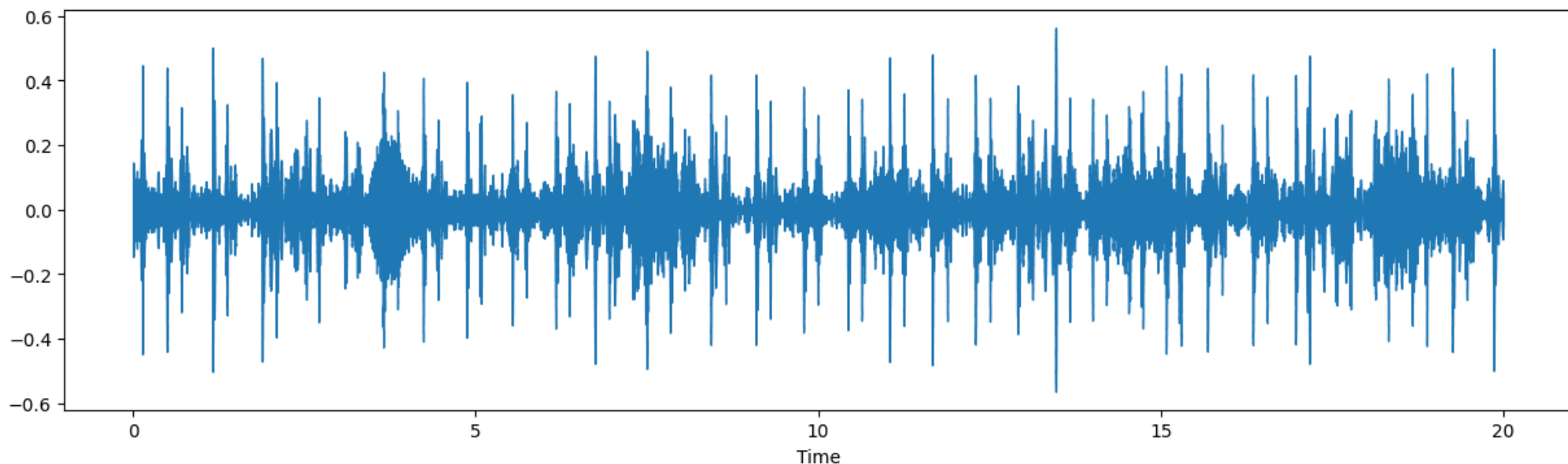
Healthy peep audio

▶ 0:00 / 0:20 — 🔊 ⋮

▶ 0:00 / 0:19 — 🔊 ⋮







As we can see, the difference between respiratory cycle audio of a person having bronchitis and that of a healthy person is easily distinguishable