

matplotlib	
Plot graph	<code>plt.plot(x, y)</code>
Show plot	<code>plt.show()</code>
Limit x axis	<code>plt.xlim(left_lim, right_lim)</code>
Limit y axis	<code>plt.ylim(lower_lim, upper_lim)</code>
Set x label	<code>plt.xlabel(string)</code>
Set y label	<code>plt.ylabel(string)</code>
Spectrogram	<code>plt.pcolormesh(x, y, z, shading="gouraud")</code>
<code>import matplotlib.pyplot as plt</code>	

librosa	
Carica da file	<code>w, sr = librosa.load(string, sr=None)</code>
File di test	<code>librosa.ex(string)</code>
Zero Crossing Rate	<code>librosa.feature.zero_crossings_rate(signal)</code>
MFCC	<code>librosa.feature.mfcc(signal)</code>
<code>import librosa</code>	

Numpy	
Range da start a stop con step	<code>np.arange(start, stop, step)</code>
Spazio lineare	<code>np.linspace(start, stop, samples_num)</code>
Somma elementi	<code>np.sum(vector)</code>
Media elementi	<code>np.mean(vector)</code>
Segno elementi	<code>np.sign(vector)</code>
Differenza k - (k - 1)	<code>np.diff(vector)</code>
Elementi non nulli	<code>np.nonzero(vector)[0]</code>
Seno	<code>np.sin(x)</code>
Appendi in_2 a in_1	<code>np.append(in_1, in_2)</code>
Radice quadrata	<code>np.sqrt(x)</code>
Fourier Transform (Valori)	<code>np.fft.rfft(signal, frame_length)</code>
Fourier Transform (Frequenze)	<code>np.fft.rfftfreq(signal, frame_length)</code>
<code>import numpy as np</code>	

scipy	
Hann window	<code>scipy.signal.windows.hann(frame)</code>
<code>import scipy</code>	

Snippet vari	
<pre>def DFT(x, N, sr): val = np.fft.rfft(x, N) freq = np.fft.rfftfreq(N, d=1/sr) return val, freq # Framing for i in range(0, len(y), int(frame_length/2)): frame = y[i:i+frame_length] # operazioni</pre>	



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Not published yet.
 Last updated 19th January, 2025.
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