Column	Column Name	Variable Type	Description	Link
1	Track ID	Identifier	The ID of the audio track	LITIK
2	File	Identifier	The GTZAN - file name (.wav)	
3	zero_cross_rate_mean	Feature	The mean zero-crossing rate (ZCR)	librosa.feature.zero crossing rate
4	zero_cross_rate_std	Feature	The standard deviation zero-crossing rate (ZCR)	<u>librosa.feature.zero_crossing_rate</u>
5	rmse_mean	Feature	The mean root-mean-square (RMS)	<u>librosa.feature.rms</u>
6	rmse_var	Feature	The standard deviation root-mean-square (RMS)	librosa.feature.rms
7 8	spectral_centroid_mean spectral centroid var	Feature Feature	The mean spectral centroid The standard deviation spectral centroid	librosa.feature.rms librosa.feature.spectral centroid
9	spectral_centroid_var	Feature	The mean p'th-order spectral bandwidth (p=2)	librosa.feature.spectral_centroid
10	spectral bandwidth var	Feature	The standard deviation p'th-order spectral bandwidth (p=2)	librosa.feature.spectral centroid
11	spectral_rolloff_mean	Feature	The mean roll-off frequency at 85%	librosa.feature.spectral_rolloff
12	spectral_rolloff_var	Feature	The standard deviation roll-off frequency at 85%	librosa.feature.spectral_rolloff
13	spectral_contrast_mean	Feature	The mean spectral contrast	<u>librosa.feature.spectral_contrast</u>
14	spectral_contrast_var	Feature Feature	The standard deviation spectral contrast	librosa.feature.spectral_contrast
15 16	spectral_flatness_mean spectral_flatness_var	Feature	The mean spectral flatness The standard deviation spectral flatness	librosa.feature.spectral flatness
17	chroma stft 1 mean	Feature	The mean chromagram bin 1	librosa.feature.chroma stft
18	chroma stft 2 mean	Feature	The mean chromagram bin 2	librosa.feature.chroma stft
19	chroma_stft_3_mean	Feature	The mean chromagram bin 3	librosa.feature.chroma_stft
20	chroma_stft_4_mean	Feature	The mean chromagram bin 4	librosa.feature.chroma_stft
21	chroma_stft_5_mean	Feature	The mean chromagram bin 5	<u>librosa.feature.chroma_stft</u>
22	chroma_stft_6_mean	Feature	The mean chromagram bin 6	librosa.feature.chroma_stft
23	chroma_stft_7_mean	Feature	The mean chromagram bin 7	librosa.feature.chroma_stft
24 25	chroma_stft_8_mean chroma_stft_9_mean	Feature Feature	The mean chromagram bin 8	librosa.feature.chroma stft librosa.feature.chroma stft
26	chroma_stft_9_mean	Feature	The mean chromagram bin 9 The mean chromagram bin 10	librosa.feature.chroma_stft
27	chroma_stft_11_mean	Feature	The mean chromagram bin 11	librosa.feature.chroma_stft
28	chroma stft 12 mean	Feature	The mean chromagram bin 12	librosa.feature.chroma_stft
29	chroma_stft_1_std	Feature	The standard deviation chromagram bin 1	librosa.feature.chroma_stft
30	chroma_stft_2_std	Feature	The standard deviation chromagram bin 2	<u>librosa.feature.chroma_stft</u>
31	chroma_stft_3_std	Feature	The standard deviation chromagram bin 3	<u>librosa.feature.chroma_stft</u>
32	chroma_stft_4_std	Feature	The standard deviation chromagram bin 4	librosa.feature.chroma_stft
33 34	chroma_stft_5_std	Feature Feature	The standard deviation chromagram bin 5 The standard deviation chromagram bin 6	librosa.feature.chroma stft librosa.feature.chroma stft
35	chroma_stft_6_std chroma_stft_7_std	Feature	The standard deviation chromagram bin 7	librosa.feature.chroma_stft
36	chroma_stft_8_std	Feature	The standard deviation chromagram bin 8	librosa.feature.chroma stft
				IIDIOSa.ieature.ciiiOiria Strt
37	chroma_stft_9_std	Feature	The standard deviation chromagram bin 9	librosa.feature.chroma_stft
37 38				
38 39	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std	Feature Feature Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11	librosa.feature.chroma_stft librosa.feature.chroma_stft librosa.feature.chroma_stft
38 39 40	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stft_12_std	Feature Feature Feature Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12	librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft
38 39 40 41	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stft_12_std tempo	Feature Feature Feature Feature Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12 Track tempo	librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.beat.tempo
38 39 40 41 42	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stft_12_std tempo mfcc_1_mean	Feature Feature Feature Feature Feature Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12 Track tempo The mean mel-scaled spectrogram bin 1	librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.beat.tempo librosa.feature.mfcc
38 39 40 41 42 43	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stft_12_std tempo mfcc_1_mean mfcc_2_mean	Feature Feature Feature Feature Feature Feature Feature Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12 Track tempo The mean mel-scaled spectrogram bin 1 The mean mel-scaled spectrogram bin 2	librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.beat.tempo librosa.feature.mfcc librosa.feature.mfcc
38 39 40 41 42	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stft_12_std tempo mfcc_1_mean	Feature Feature Feature Feature Feature Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12 Track tempo The mean mel-scaled spectrogram bin 1	librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.beat.tempo librosa.feature.mfcc
38 39 40 41 42 43 44	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stff_12_std tempo mfcc 1_mean mfcc_2_mean mfcc_3_mean	Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12 Track tempo The mean mel-scaled spectrogram bin 1 The mean mel-scaled spectrogram bin 2 The mean mel-scaled spectrogram bin 3	librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc
38 39 40 41 42 43 44 45 46 47	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stft_12_std tempo mfcc_1_mean mfcc_2_mean mfcc_3_mean mfcc_4_mean mfcc_5_mean mfcc_6_mean	Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12 Track tempo The mean mel-scaled spectrogram bin 1 The mean mel-scaled spectrogram bin 2 The mean mel-scaled spectrogram bin 3 The mean mel-scaled spectrogram bin 4 The mean mel-scaled spectrogram bin 5 The mean mel-scaled spectrogram bin 6	librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc
38 39 40 41 42 43 44 45 46 47 48	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stft_12_std tempo mfcc_1_mean mfcc_2_mean mfcc_3_mean mfcc_4_mean mfcc_5_mean mfcc_6_mean mfcc_7_mean	Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12 Track tempo The mean mel-scaled spectrogram bin 1 The mean mel-scaled spectrogram bin 2 The mean mel-scaled spectrogram bin 3 The mean mel-scaled spectrogram bin 4 The mean mel-scaled spectrogram bin 5 The mean mel-scaled spectrogram bin 6 The mean mel-scaled spectrogram bin 6	librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc
38 39 40 41 42 43 44 45 46 47 48	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stft_12_std tempo mfcc_1_mean mfcc_2_mean mfcc_3_mean mfcc_4_mean mfcc_5_mean mfcc_5_mean mfcc_6_mean mfcc_6_mean mfcc_7_mean mfcc_8_mean	Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12 Track tempo The mean mel-scaled spectrogram bin 1 The mean mel-scaled spectrogram bin 2 The mean mel-scaled spectrogram bin 3 The mean mel-scaled spectrogram bin 4 The mean mel-scaled spectrogram bin 5 The mean mel-scaled spectrogram bin 6 The mean mel-scaled spectrogram bin 7 The mean mel-scaled spectrogram bin 7	librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc librosa.feature.mfcc
38 39 40 41 42 43 44 45 46 47 48 49	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stft_11_std chroma_stff_12_std tempo mfcc_1_mean mfcc_2_mean mfcc_3_mean mfcc_4_mean mfcc_5_mean mfcc_6_mean mfcc_6_mean mfcc_7_mean mfcc_8_mean mfcc_9_mean	Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12 Track tempo The mean mel-scaled spectrogram bin 1 The mean mel-scaled spectrogram bin 2 The mean mel-scaled spectrogram bin 3 The mean mel-scaled spectrogram bin 4 The mean mel-scaled spectrogram bin 5 The mean mel-scaled spectrogram bin 6 The mean mel-scaled spectrogram bin 7 The mean mel-scaled spectrogram bin 8 The mean mel-scaled spectrogram bin 8	librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.mfcc
38 39 40 41 42 43 44 45 46 47 48 49 50	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stft_12_std tempo mfcc_1_mean mfcc_3_mean mfcc_4_mean mfcc_5_mean mfcc_6_mean mfcc_7_mean mfcc_9_mean mfcc_9_mean mfcc_9_mean	Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12 Track tempo The mean mel-scaled spectrogram bin 1 The mean mel-scaled spectrogram bin 2 The mean mel-scaled spectrogram bin 3 The mean mel-scaled spectrogram bin 4 The mean mel-scaled spectrogram bin 5 The mean mel-scaled spectrogram bin 6 The mean mel-scaled spectrogram bin 7 The mean mel-scaled spectrogram bin 7 The mean mel-scaled spectrogram bin 8 The mean mel-scaled spectrogram bin 9 The mean mel-scaled spectrogram bin 10	librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.mfcc
38 39 40 41 42 43 44 45 46 47 48 49	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stft_11_std chroma_stff_12_std tempo mfcc_1_mean mfcc_2_mean mfcc_3_mean mfcc_4_mean mfcc_5_mean mfcc_6_mean mfcc_6_mean mfcc_7_mean mfcc_8_mean mfcc_9_mean	Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12 Track tempo The mean mel-scaled spectrogram bin 1 The mean mel-scaled spectrogram bin 2 The mean mel-scaled spectrogram bin 3 The mean mel-scaled spectrogram bin 4 The mean mel-scaled spectrogram bin 5 The mean mel-scaled spectrogram bin 6 The mean mel-scaled spectrogram bin 7 The mean mel-scaled spectrogram bin 8 The mean mel-scaled spectrogram bin 8	librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.mfcc
38 39 40 41 42 43 44 45 46 47 48 49 50 51	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stft_12_std tempo mfcc_1_mean mfcc_2_mean mfcc_4_mean mfcc_5_mean mfcc_6_mean mfcc_7_mean mfcc_7_mean mfcc_9_mean mfcc_9_mean mfcc_10_mean mfcc_10_mean mfcc_11_mean	Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12 Track tempo The mean mel-scaled spectrogram bin 1 The mean mel-scaled spectrogram bin 2 The mean mel-scaled spectrogram bin 3 The mean mel-scaled spectrogram bin 4 The mean mel-scaled spectrogram bin 5 The mean mel-scaled spectrogram bin 6 The mean mel-scaled spectrogram bin 7 The mean mel-scaled spectrogram bin 8 The mean mel-scaled spectrogram bin 9 The mean mel-scaled spectrogram bin 10 The mean mel-scaled spectrogram bin 10 The mean mel-scaled spectrogram bin 10	librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.mfcc
38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stft_11_std chroma_stft_12_std tempo mfcc_1_mean mfcc_2_mean mfcc_3_mean mfcc_6_mean mfcc_6_mean mfcc_7_mean mfcc_8_mean mfcc_9_mean mfcc_9_mean mfcc_10_mean mfcc_11_mean mfcc_12_mean mfcc_1_std mfcc_2_std	Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12 Track tempo The mean mel-scaled spectrogram bin 1 The mean mel-scaled spectrogram bin 2 The mean mel-scaled spectrogram bin 3 The mean mel-scaled spectrogram bin 4 The mean mel-scaled spectrogram bin 5 The mean mel-scaled spectrogram bin 6 The mean mel-scaled spectrogram bin 7 The mean mel-scaled spectrogram bin 8 The mean mel-scaled spectrogram bin 9 The mean mel-scaled spectrogram bin 10 The mean mel-scaled spectrogram bin 10 The mean mel-scaled spectrogram bin 11 The mean mel-scaled spectrogram bin 12 The standard deviation mel-scaled spectrogram bin 1	librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.chroma stft librosa.feature.mfcc
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38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59	chroma_stft_9_std chroma_stft_10_std chroma_stft_11_std chroma_stft_11_std chroma_stft_12_std tempo mfcc_1_mean mfcc_2_mean mfcc_4_mean mfcc_5_mean mfcc_6_mean mfcc_7_mean mfcc_9_mean mfcc_10_mean mfcc_11_mean mfcc_12_mean mfcc_12_std mfcc_2_std mfcc_3_std mfcc_3_std mfcc_4_std mfcc_5_std mfcc_6_std	Feature	The standard deviation chromagram bin 9 The standard deviation chromagram bin 10 The standard deviation chromagram bin 11 The standard deviation chromagram bin 12 Track tempo The mean mel-scaled spectrogram bin 1 The mean mel-scaled spectrogram bin 2 The mean mel-scaled spectrogram bin 3 The mean mel-scaled spectrogram bin 4 The mean mel-scaled spectrogram bin 5 The mean mel-scaled spectrogram bin 6 The mean mel-scaled spectrogram bin 7 The mean mel-scaled spectrogram bin 7 The mean mel-scaled spectrogram bin 8 The mean mel-scaled spectrogram bin 9 The mean mel-scaled spectrogram bin 10 The mean mel-scaled spectrogram bin 11 The mean mel-scaled spectrogram bin 12 The standard deviation mel-scaled spectrogram bin 1 The standard deviation mel-scaled spectrogram bin 3 The standard deviation mel-scaled spectrogram bin 4 The standard deviation mel-scaled spectrogram bin 5	librosa.feature.chroma stft librosa.feature.mfcc
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