Steps for Feature Extraction and Data Preparation for Training
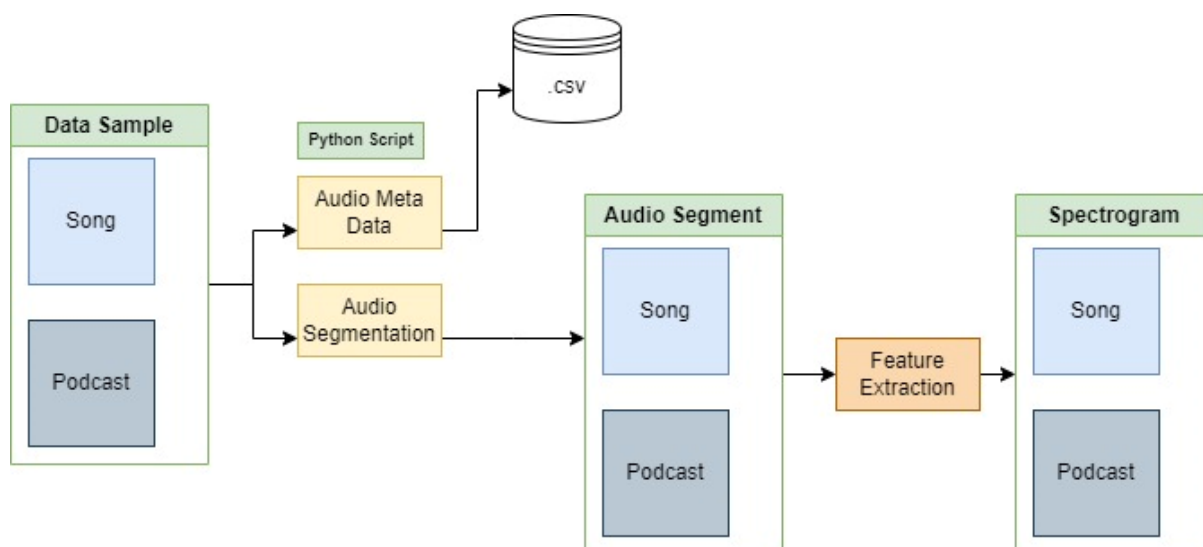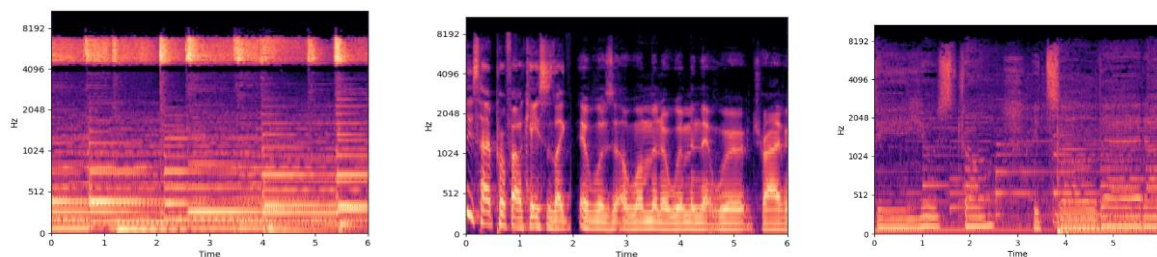
Step 1- Feature Extraction
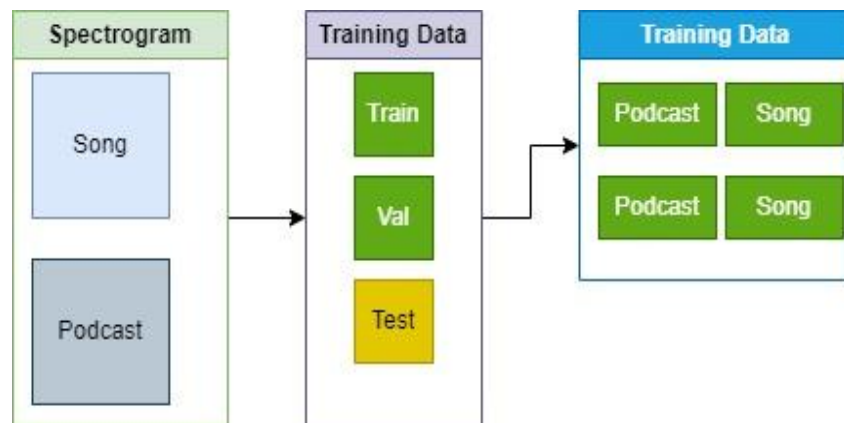

Audio Meta Data Information:

A	B	C	D	E	F	G	H
	Name	Duration	File_size(kb)	Class	Sample_rate	Bitrate	Folder_Name
0	Gprodcast7_314.mp3	3	111.673	ProdCast	44100	275693.3333	ProdcastSecSegmentation
1	Ab_Talk_19_552.mp3	3	179.162	ProdCast	48000	455664	ProdcastSecSegmentation
2	Anchal_(POdcast)_48_5	3	89.046	ProdCast	44100	215354.6667	ProdcastSecSegmentation
3	GPord_23_243.mp3	3	186.516	ProdCast	44100	475274.6667	ProdcastSecSegmentation
4	Encore_-_Psychology_ta	3	172.77	ProdCast	44100	438618.6667	ProdcastSecSegmentation
5	Ab_Talk_9_158.mp3	3	121.666	ProdCast	44100	302341.3333	ProdcastSecSegmentation
6	Gprodcast12_730.mp3	3	174.722	ProdCast	44100	443824	ProdcastSecSegmentation
7	GPord_22_1586.mp3	3	131.827	ProdCast	44100	329437.3333	ProdcastSecSegmentation
8	Ab_Talk_19_250.mp3	3	178.054	ProdCast	48000	452709.3333	ProdcastSecSegmentation
9	GPord_14_1174.mp3	3	133.606	ProdCast	44100	334181.3333	ProdcastSecSegmentation
10	Dr_Madhu_1_778.mp3	3	124.659	ProdCast	44100	310322.6667	ProdcastSecSegmentation
11	Ab_Talk_7_100.mp3	3	130.901	ProdCast	44100	326968	ProdcastSecSegmentation
12	Anchal_(Podcast)_8_58:	3	149.277	ProdCast	44100	375970.6667	ProdcastSecSegmentation
13	Anchal_(Podcast)_18_2:	3	151.116	ProdCast	44100	380874.6667	ProdcastSecSegmentation
14	GPord_1_392.mp3	3	139.523	ProdCast	48000	349960	ProdcastSecSegmentation
15	Jay_5_1306.mp3	3	149.55	ProdCast	44100	376698.6667	ProdcastSecSegmentation

Spectrogram Sample

Training Data Preparation

Model Architecture: