SentimentNet is built on top of the encoder decoder architecture of PerformanceNet.

It contains 2 subnets:

1. ContourNet

2.TextureNet

The model generates music based on the required sentiment among happy, sad, or

suspenseful.

Below are the libraries that needs to be installed in python for this project:

|  |
| --- |
|  |
|  | music21  librosa |
|  | intervaltree |
|  | pretty\_midi |
|  | numpy |
|  | scipy |
|  | pickle |
|  | h5py |
|  | torch |
|  | sklearn |
|  | tqdm |

The model of SentimentNet can be integrated with an interactive user dashboard as below,

A picture containing screenshot

Description automatically generated

Hardware recommendations of SentimentNet is as below on a windows machine,

A screenshot of a cell phone

Description automatically generated