

ABSTRACT

INTRODUCTION

the name of our project is MUSICAL NOTE RECOGNISER.

Our idea is to generate musical notes for a given song. These notes can be very useful to musicians for playing the song on any instrument or sing it without errors.

MOTIVATION

For every given song, the notes for every part of the song are unique. so we can assign the task of recognising the notes of the song to computers (as it is not a creative task).

PROBLEM STATEMENT

Input: A song or a instrumental tune.

Output: The musical notes for every bit of the song.

APPROACH

input the song using a good microphone.

Divide the song into very small time intervals(bits). Use microphone data of the recorded sound track to process the song. Remove unwanted noise and consider the part of audio which corresponds to the pitch of the notes and using that then find the frequency corresponding to that part. Then find the note corresponding note from the collection of notes previously stored in the memory. Repeat the process for every bit.

finally output the notes in required format(piano, guitar, etc).

NOTE: It would be good if some voice processing workshops can be arranged.

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