1

Probability Software Assignment

Name -: Kedareswar Kondakavuri Roll no -: CS22BTECH11033

Abstract—In this assignment we made a Music player in python which uses numpy module of python to shuffle the songs.

Introduction:

This report analyzes a Python script that implements a simple music player using the Pygame and Tkinter libraries. The script allows the user to play songs randomly from a specified music folder.

Explanation:

The Python script begins by importing the necessary libraries: os, numpy, pygame, and tkinter. It then initializes the Pygame mixer.

Next, it defines the music folder path and retrieves the list of music files from that folder. The script shuffles the files randomly using the numpy.random.permutation function.

The script includes two main functions: play_song and next_song. The play_song function retrieves the index of the current song, loads the corresponding music file using Pygame, and plays it.

The next_song function stops the currently playing song, increments the index, and checks if all songs have been played. If all songs have been played, it updates the GUI label to display a completion message. Otherwise, it updates the current song index and calls the play_song function to play the next song.

The main part of the script creates a Tkinter window and adds a label to display the current song index. It also includes buttons for playing the current song and moving to the next song.

Conclusion:

The Python script provides a basic music player interface using Pygame and Tkinter. It allows the user to play songs randomly from a specified music folder. The code can be further extended and customized to add more features and functionality to the music player.



Fig. 1: Random song