# OBJECTIVES

This project aim in developing a song recommendation system for users in any application. We can analyze the preferences of a user, and on that basis, offer suitable recommendations for various subjects-books, songs, or various online shopping products

In this project we create an analytical recommendation system which interacts with user and they will be able to get excellent suggestions.

We create this project by using Python and Anaconda, and a data set of songs, available online .

Algorithm

1.Intall python,install anaconda

2.Import song data set from millionsongdataset,com

3.Reading the songs metadata file into a dataframe

4.Another data sets triplets file which tells us the listen count of our user for a specific song

5.Combine these 2 data sets on song id column

6.We can apply different filters on how to recommend song-most listened song ,most popular artist

7.Generate cross tab(pivot table)-for songs and users

8.Compress pivot table using svd transformation(which describes relationship between songs and users in some other form such as genre) into a matrix

9.Information is normalized ie we have created vectors for each song

10.In order to find similar songs , we need to find similarity between the matrix, ie angle between the vectors

11.When user searches a song, we will find similar songs and display