

Questions:

1. What is Cosine Similarity?

This approach is considered to be the best if we need to compare the two vectors to find out the similarity and to understand the relationship between the two-vector considering the relative presence or absence of musical attributes and prioritizes the similarity in sounds of the songs resulting in good recommendation

2. What is normal distribution?

It is also known as bell curve as it is appeared as bell curve when plotted on a graph. It is the statistical distribution when all the data points are group around a central value.

3. Explain skewed distribution?

When data points are not evenly distributed around the central value and when plotted on graph the graph is lean towards left or right side creating an asymmetrical shape.

4. Why is cosine similarity approach used in song recommender system?

Cosine similarity is most widely known for efficiency, reliability, and capability when we need to build recommender system. It is easy to implement and compared the similarity between the songs based on their features.

5. Do we need to handle the missing values in song recommender system? If yes, then why?

Yes, it is very important to handle the missing values in recommender system and it can easily impact the accuracy of the system by providing the biased and unreliable recommends based on incomplete information.

6. What are the important features which play important role in song recommender system?

Genres is the important feature. The other features which also can play important role are valence, acousticness, and others.

7. How the song recommender system can be better?

To make our system better we can add collaborative filtering in our content-based system. In existing system, we are trying to recommend songs based on the genres and other features that are similar to the user past choice songs genres. With collaborative filtering we can recommend the songs based on the other users with similar tastes. This method will allow us to provide more personalized recommendation to the users.

8. What are the other approaches that can be used to build song recommender system?

We used cosine similarity with content-based filtering to build song recommending system. Other approaches are collaborative filtering and Hybrid recommendation approach.

9. Can this model be used for recommending something else?

Yes, we can use this model with slight changes to recommend something else like movies, music, etc.

10. How the existing model can be improved?

One of the limitations is we using the historical dataset, we are not sure how old is this dataset. Also, this dataset has some features, but we are not sure if we are missing any important features that can changes the recommendation outcome then we build the model with certain limitation. In order to deal with this limitation, we need to try this model on different dataset and a proper review should happen on this model by expertise to understand if we are missing anything in this model.