



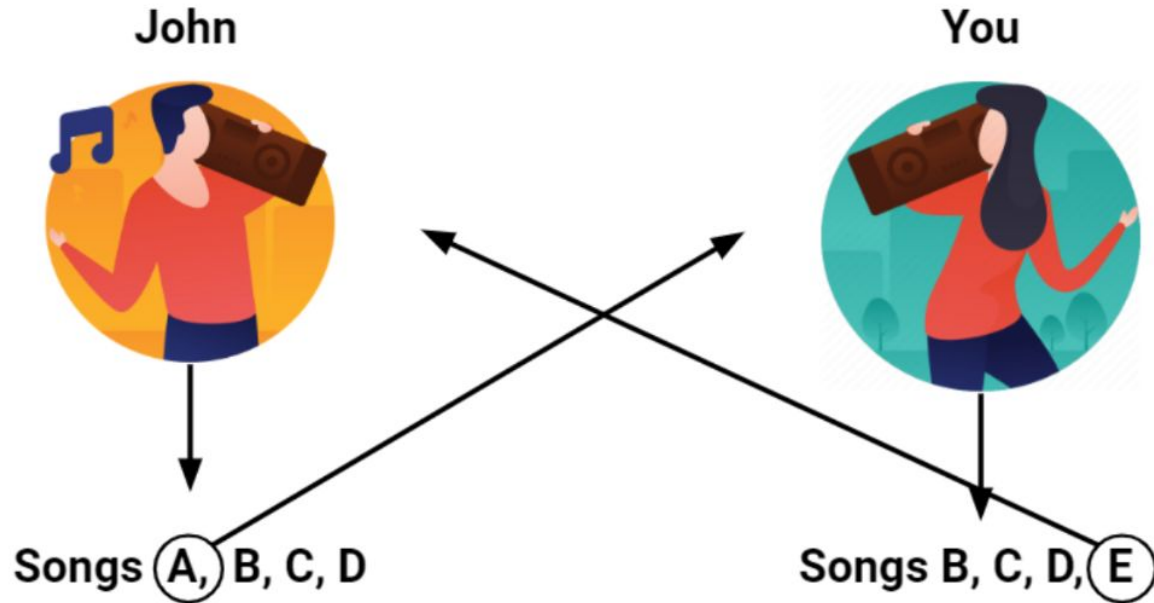
SPOTIFY SONGS RECOMMENDER

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Introduction

Song recommender based on the Spotify histories of similar users



Methodology

Data acquisition

→ 24 Spotify streaming histories

Data treatment

→ Scoring system for songs (60% times listened, 40% genre)

Name of the song substituted by a numeric code

Recommender method

→ Collaborative filtering → similarities user - user

Surprise library

Parameters of the chosen recommender

→ SVD

→

- n epochs: 30
- lr all: 0.005
- reg all: 0.001

Results

The result is tested using cross validation, using five folds.

Final output  Number of recommended songs the user has chosen and the result of the cross validation.

Conclusions

Surprise Library —→ Very powerful tool to implement machine learning.
Better results, more computationally expensive.

Next step —→ It would be interesting to use this code to create an application where you can make groups and when all the members upload the streaming history, the algorithm gives personal recommendations based on your close friends.