

IT-562
Recommendation Systems and Engines

Team- 404

Article Recommendation System

Future Scope of the Project:

Given more time, following modifications or extensions could have been done to the Article Recommendation System proposed by us.

1. Sentiment Analysis on Comments:

The database did not contain the content of the Comments. If the Database for Comments can be made available, Sentiment Analysis can be done on the Comments and thus the weights for the Comments Interaction can be penalized or rewarded accordingly.

2. Better U/I:

A better U/I for taking in a new User Interaction and showing Recommendations. Currently, the article is opened in the browser when the user chooses to view it. A small preview of Articles can be shown while recommending with its author and Genre specified. A proper Rating, Commenting, Liking medium could have been formed on a website or an App instead of taking inputs from the Console.

3. Nuanced code for new users.

The code for new users is not nuanced. After checking that the user does not exist in the database, our system recommends the top articles from each genre to the new user. If given more time new users can be added to the database and their actions (which are stored in the DB) can be used after every iteration to recommend a mixture of Most popular articles from clusters and articles which are similar to what he prefers (Content Based). The ratio of Popular to Content based can be adjusted with

increasing interactions till 5 interactions after which the hybrid model works flawlessly.

4. Time Efficiency:

Although this factor is considered to a great degree in the code, further improving the Time efficiency of our Model can be one of the most important modifications. For Training and Testing the time required is high. Time efficiency of the Model was one of the major bottleneck of the project.