University Recommendation Engine for MS

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Abstract

People make decisions every day. There are too many choices and a little time to explore them all. Recommendation systems help people make decisions in these complex information spaces. Recommendation systems are a type of information filtering that presents lists of items (films, songs, books, videos, images, products, web pages) which are likely of user interest. Amazon, Last.fm, Ulike, iLike, Netflix, Pandora are the most popular recommender systems all over the world. Simply they compare user interest acquired from his/her profile with some reference characteristics and predict the rating that the user would give. Recommendation System is a subclass of information filtering system which takes input from users and provides User with the most suitable output to fulfill his requirements. This system is used to present a new college admission system using data mining techniques for tackling college admission prediction problems. This System uses content-based filtering to provide aspiring students (Master of Science) with the most appropriate choices of colleges based on different parameters. The system analyses the student academics, merit, background, student records and the college admission criteria. Then it predicts the likelihood of colleges the student may enter. In addition to the high prediction accuracy is an advantage, as the system can predict suitable colleges that match the students' profiles and the suitable track channels through which the students are advised to enter.
Keywords: MS, GRE, TOEFL, SOP

I. INTRODUCTION

Every year large no of students have to face the task of selecting the best university for pursuing their Master Of Science (MS) degree. The user has to register with the system for the purpose of authentication. Once the user has registered with the system he is provided with a username and password for further log-in sessions.

The second stage involves taking input from the user. This information is stored in a database. The information consists of his educational information i.e. his graduation grades, his entrance exam score, year of appearing, work experience, his background and his field of interest.

The third and final step is where student gets the recommendations he needs to make the best choice. For proposing the recommendation the user's information in the database is compared with the available dataset of universities. Based on the information he has provided, the system will scale his different attributes on multidimensional graph and the universities which

II. EXISTING SYSTEMS

Now days, there are so many book purchasing websites available, claim to recommend users best books according to their interests. Most of the recommendations are based on conventional content, context and collaborative recommendations algorithms. All these algorithms alone fail to recommend best and efficient recommendations to user. So, there is a need to evolve a unique algorithm which combines the features of conventional algorithm along with its new features. This paper describes the NOVA, which is a book recommendation engine, based on a unique Hybrid recommendation algorithm, satisfies a user by providing best and efficient books recommendations. This paper also presents a comparative case study of conventional recommendation algorithms to NOVA's Hybrid books recommendation algorithm. This case study is based on evaluating criteria of recommendation algorithm i.e. accuracy, precision, recall, Fmeasure etc. Results of this case study are represented in the form of tables and graphs to clearly specify the need of NOVA.

III. DISADVANTAGES OF EXISTING SYSTEMS

If user purchases new books, having different priorities, it needs to change priority of books on each purchase.

IV. PROPOSED SYSTEMS

Recommendation systems are widely used all over the world. The increasing need of these systems leads us to develop such systems. The system to be developed is to recommend the universities to students applying GRE which moreover includes all aspects like, GRE score, TOEFL score, wish list analysis, SOP analysis, etc.

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V. SYSTEM ARCHITECTURE
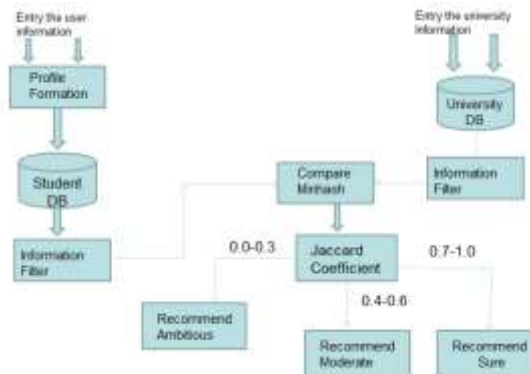

Fig. 1: System Architecture Diagram

VI. HARDWARE REQUIREMENT

Processor   : Pentium 4x,Dual Core, Intel
HDD   : 100 GB
Keyboard & Mouse: Standard
Monitor   : Standard

VII. SOFTWARE REQUIREMENT

Operating System   : Windows 8, Linux
Languages   : JAVA,JSP/Servlet
Database   : MySql
Development   : Eclipse IDE

VIII. ADVANTAGES OF SYSTEM

- Built in java hence it is platform independent.
- Performs analysis of SOP for which students consult and pay.
- Analyze module will help to understand where you are lacking.
- Web based application will make it more scalable.
- Rupee to Dollar and Dollar to Rupee up-to-date conversion.

IX. FUTURE SCOPE

- Application process to particular university through our website can be made.
- Online negotiations with admission staff at different universities can be proposed.
- Collaborative based recommendation can be proposed.
- Application proofs to be verified of users.

X. CONCLUSION

This paper has covered the core of recommendation experiments, and has examined how to incorporate information from metadata into recommendation algorithms. In addition, it evaluates the possibility to combine the various recommendations techniques. It describes the conventional Content, Collaborative Filtering recommendation approaches along with their precision, recall and accuracy parameters. Recommender systems are an extremely potent tool utilized to assist the selection process easier for users. This recommender system will assuredly be a great web application.

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REFFERENCES

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