Course Recommendation System

Report submitted in partial fulfillment of the requirement for the degree of

B.Tech

in

Computer Science & Engineering

Under the supervision

of

Ms. Charu Gupta
Assistant Professor
Department of Computer Science & Engineering

by

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DECLARATION

This is to certify that Report titled “Course Recommendation System”, is submitted by us in partial fulfillment of the requirement for the award of degree B.Tech. in Computer Science & Engineering to BPIT, GGSIP University, Dwarka, Delhi. It comprises of our original work. The due acknowledgement has been made in the report for using others work.

Date: 22-04-2019

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Certificate by Supervisor

This is to certify that Report titled “Course Recommendation System” is submitted by Abhishek Jain 00620802715, Achintya Sarkar (00720802715) , Himanshu Ratnani 03220802715, CSE-A , Aayush Tiwari 00420802715 , in partial fulfillment of the requirement for the award of degree B.Tech in Computer Science & Engineering to BPIT, GGSIP University, Dwarka, Delhi. **It is a record of the candidates own work carried out by them under my supervision.** The matter embodied in this Report is original and has not been submitted for the award of any other degree.

(Signature)

Date 22-04-19 **Ms. Charu Gupta**

Certificate by HOD

This is to certify that Report titled “Course Recommendation System ” is submitted by Abhishek Jain 00620802715, Achintya Sarkar (00720802715), Himanshu Ratnani (03220802715), CSE-A , Aayush Tiwari 00420802715, under the guidance of Ms. Charu Gupta in partial fulfillment of the requirement for the award of degree B.Tech in Computer Science & Engineering to BPIT, GGSIP University, Dwarka, Delhi. The matter embodied in this Report is original and has been dully approved for the submission.

(Signature)

Date:22-04-19 **Dr. Deepali Virmani**

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Abstract

Choosing a course from a large list of courses can prove to be a challenging job for a student. In order to solve this problem the proposed approach uses a recommendation system which plays a significant role in suggesting the best suitable course to the student according to his/ her personal learning ability. The ideology is that the system recommends the courses based on the similarities of the students who want the recommendation with the students who have already taken and rated the courses earlier, rather than basing the recommendations purely on a knowledge base. In the case of new students prior to suggesting a course the approach uses some questionnaire and a set of parameters for developing a knowledge base of these students so that the recommendation can be optimized. The initial approach used is collaborative based, where the user-item matrix is considered for getting the score of the user and his similar users. The proposed recommender system performs better by mitigating the weakness of basic individual recommender systems along with improving the classifiers used in real-time. This is primarily done by analyzing each user currently using the system.
Keywords: Course recommendation system, Collaborative, User-Item Matrix.