ELECTIVE RECOMMENDATION SYSTEM

A PROJECT REPORT

Submitted by,

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Under the guidance of,

Mr. Jerrin Joe Francis

in partial fulfillment for the award of the degree of

BACHELOR OF TECHNOLOGY

IN

COMPUTER SCIENCE AND ENGINEERING

At

GAIN MORE KNOWLEDGE
REACH GREATER HEIGHTS

PRESIDENCY UNIVERSITY

BENGALURU

DECEMBER 2024

PRESIDENCY UNIVERSITY

SCHOOL OF COMPUTER SCIENCE ENGINEERING

CERTIFICATE

This is to certify that the Project report **"ELECTIVE RECOMMENDATION SYSTEM"** being submitted by "NARIGANNAGARI SHAMEER, SREEKAR SANNITHI, RAHUL POLDAS, TADIPATRI LIKITH GANESH" bearing roll number "20211CSE0021, 20211CSE0020, 20211CSE0019, 20211CSE0120" in partial fulfillment of the requirement for the award of the degree of Bachelor of Technology in Computer Science and Engineering is a bonafide work carried out under my supervision.

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DECLARATION

We hereby declare that the work, which is being presented in the project report entitled **ELECTIVE RECOMMENDATION SYSTEM** in partial fulfillment for the award of Degree of **Bachelor of Technology** in **Computer Science and Engineering**, is a record of our own investigations carried under the guidance of **Mr. JERRIN JOE FRANCIS, Assistant Professor, School of Computer Science Engineering & Information Science, Presidency University, Bengaluru.**

We have not submitted the matter presented in this report anywhere for the award of any other Degree.

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ABSTRACT

In today's digital age, data shapes our online experiences. Recommendation engines play a crucial role in helping us decide on products, content, and services. This paper extensively explores the evolving domain of deep learning-based recommendation systems, focusing on significant progress in system evaluation, personalized recommendation methods, and the integration of diverse data sources.

The recommender system is studied widely and applied in different domains in this era. However, the domain of course recommendation, in the context of this research, addresses this predicament through the introduction of a collaborative filtering recommendation approach. This approach harnesses the information encapsulated within students prerequisite courses and the mean GPA of those prerequisites to furnish elective course recommendations, predicated on the resemblances observed among prior students. The methodology employs the Singular Value Decomposition (SVD) algorithm to quantify the similarity between students and the elective courses recommendation procedure.

The current accuracy of the recommendation system is 0.86. This shows that the system is now much better at predicting grade point.

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