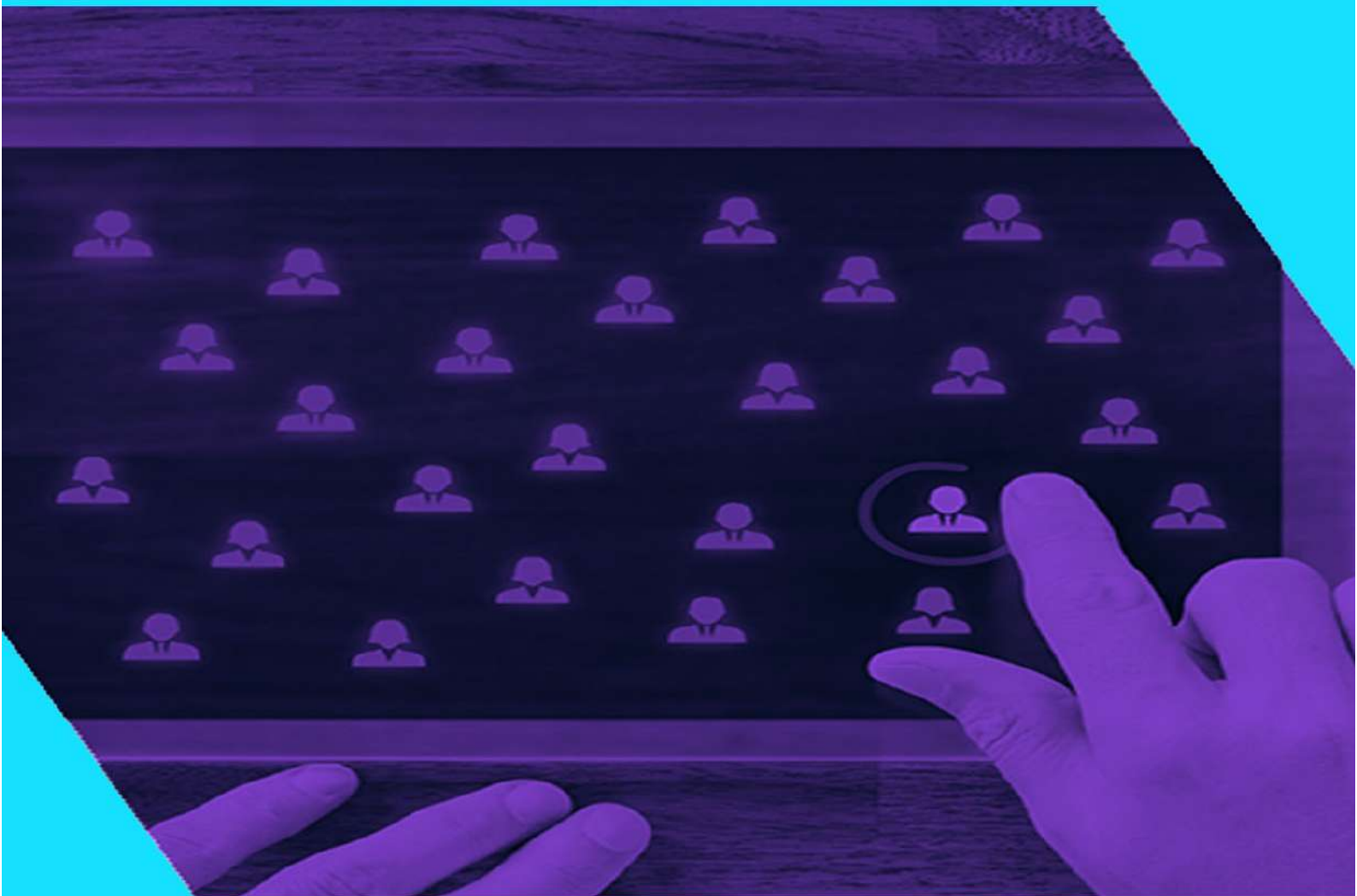


Personalized Pathways : Job and Movie Recommendation Systems Unveiled



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PREFACE

Machine learning in the field of education has gained much attention in recent years. Many machine learning techniques, such as decision trees, artificial neural networks, matrix factorization and probabilistic graphical models have been applied to develop prediction algorithms.

In the proposed system, a complete EDM (Educational data mining) framework in a form of a rule-based recommender system is developed to analyse and predict the student's performance. Data of each student contains the individual's pre-college grades, and semester grades. These semester grades are considered for evaluation and performance category of the student is predicted. This helps the students to know their level of performance beforehand and allows them to take necessary actions to improve on it. Based on the performance level, job roles and courses they can take to further enhance their performance are recommended.

In the spread of information. How to quickly find one's favorite movie in a large number of movies become a very important issue. Personalized recommendation system can play an important role especially when the user has no clear target movie. Using data mining techniques like K-Means, KNN methods are used to design and implement a movie recommender system combined with the actual needs of movie recommendation through researching of collaborative filtering algorithm.

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