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Hybrid-Based Movie Recommender System: Techniques, Case Studies, Evaluation Metrics, and Future Trends

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Abstract - The necessity for sophisticated recommender systems in the movie recommendation sphere has become particularly pronounced, generating a more personalized movie recommendation due to people nowadays who like to watch movies online. Efficient recommender systems make use of advanced machine learning (ML) techniques in the pursuit of accurate and meaningful recommendations. This paper endeavours to give a comprehensive overview of technologies known as recommender systems, concentrating on ML methods found at the base. Different strategies have been applied in this work, which include collaborative filtering (CF), content-based filtering (CB), hybrid approaches, Generative AI and so on. The merits and demerits of each technique are listed and explained briefly. In addition, the actual application's results are also presented in this paper. To evaluate the performance of the techniques, some of the important metrics that are used in evaluating recommender systems are also discussed along with measurement metrics to determine the effectiveness of techniques. Example metrics used are Root Mean Square Error (RMSE), Mean Absolute Error (MAE) and so on. This paper synthesizes existing research to evaluate the advantages and limitations of diverse recommendation techniques, which aims to give suggestion on how to improve the design of movie recommendation systems so that the performance of the technique can be improved.

Keywords—Content-based Filtering, Collaborative Filtering, Hybrid-based, Machine Learning, Recommender System, Evaluation Metrics, Movie Recommender.

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1. INTRODUCTION

The rapid evolution of technology has revolutionized the way people consume entertainment. Online movie streaming services have emerged as a dominant force in the entertainment industry, reshaping audience preferences and consumption patterns. Users will now be able to watch movies online instead of going to cinema which can help users save money when compared to services that require user to pay per movie watched. However, there are limitations on these online platforms which are unable to perform accurate recommendations. Therefore, a movie recommender system is developed to help perform recommendations on movies which best matches user preferences. A

Metrics And Case Studies Evaluation

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Methods for evaluating wetland condition 14 wetland biological assessment case studies. , Innovative Educational Assessment with Generative AI: Opportunities, Challenges, and Practical Case Studies Mohamed Lahby,2025-12-12 This book explores the transformative role of Generative Artificial Intelligence GenAI in reshaping educational assessment in higher education Through theoretical insights practical applications and ethical reflections the book examines how emerging GenAI tools such as ChatGPT DeepSeek Gemini and LLaMA are revolutionizing assessment practices It focuses on the use of personalized adaptive assessment strategies automated feedback and data driven evaluation methods that are redefining how students learn and are evaluated across global contexts The book is structured into three parts The first part offers a foundational overview of GenAI in assessment addressing its ethical sociological and security implications The second part highlights how GenAI supports personalized learning showcasing innovative tools like adaptive feedback systems and AI powered tutoring environments The final part presents case studies and practical applications from various countries all focused on assessments and Generative AI These chapters collectively serve as a valuable resource for educators researchers and policymakers aiming to harness the power of Generative AI to improve educational assessment in a responsible and effective way

Design, User Experience, and Usability. Case Studies in Public and Personal Interactive Systems Aaron Marcus,Elizabeth Rosenzweig,2020-07-10 This book constitutes the refereed proceedings of the 9th International Conference on Design User Experience and Usability DUXU 2020 held as part of the 22nd International Conference on Human Computer Interaction HCII 2020 in Copenhagen Denmark in July 2020 The conference was held virtually due to the COVID 19 pandemic From a total of 6326 submissions a total of 1439 papers and 238 posters has been accepted for publication in the HCII 2020 proceedings The 51 papers included in this volume were organized in topical sections on interactions in public urban and rural contexts UX design for health and well being DUXU for creativity learning and collaboration DUXU for culture and tourism

Climate Adaptation and Resilience Across Scales Nicholas B. Rajkovich,Seth H. Holmes,2021-11-15 Climate Adaptation and Resilience Across Scales provides professionals with guidance on adapting the built environment to a changing climate This edited volume brings together practitioners and researchers to discuss climate related resilience from the building to the city scale This book highlights North American cases that deal with issues such as climate projections public health adaptive capacity of vulnerable populations and design interventions for floodplains making the content applicable to many locations around the world The contributors in this book discuss topics ranging from how built environment professionals respond to a changing climate to how the building stock may need to adapt to climate change to how resilience is currently being addressed in the design construction and operations communities The purpose of this book is to provide a better understanding of climate change impacts vulnerability and resilience across scales of the built environment Architects urban designers planners landscape architects and engineers will find this a useful resource for

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satellites there is little guidance on determining cost effectiveness This study was organized to examine public private partnerships in remote sensing metrics for evaluating such partnerships the types of partnerships that might be most appropriate for NASA s Earth Science Enterprise and options for the future of NASA s SDB The authors caution that NASA needs to understand and choose what kind of buyer of private remote sensing data it wants to be before it develops specific cost effectiveness metrics and that it should clearly articulate the role of the SDB with respect to an overall strategy for Earth science research

Renewables-Based Technology Jo Dewulf,Herman Van Langenhove,2006-05-12 Renewables Based Technology Sustainability Assessment Sustainability is a key driving force for industries in the chemical food packaging agricultural and pharmaceutical sectors and quantitative sustainability indicators are being incorporated into company reports This is driving the uptake of renewable resources and the adoption of renewables Renewables can either be the substituted raw materials that are used in a given industry e g the use of biomass for fuel the use and or modification of a crop for use in a new industry e g plant cellulose or the reuse of a waste product e g organic waste for energy production This is the first book in the Wiley Renewable Resources series that brings together the range of sustainability assessment methods and their uses Ensuing books in the series will look at individual renewable materials and applications

Software Metrics B. A. Kitchenham,1996 The author explains what is meant by software measurement and how to decide what to measure how to use measurement to support different aspects of a process improvement programme how to set quantitative goals using a pragmatic approach to the Goal Question Metric paradigm how to set up a metrication programme and design a data collection system and how to analyse the software data collected

Assessment and Control of Software Risks

Capers Jones,1994 This handbook summarizes more than 50 of the major problems of building and maintaining software projects and outlines the prevention control therapies available

Proceedings of the 12th International Conference on Nuclear Engineering ICONE-12 ASME. Nuclear Engineering Division,2004

Paper ,1999 ASME Technical Papers ,1999

Emerald Architecture: Case Studies in Green Building (GreenSource) GreenSource

Magazine,2008-05-04 Design inspiration for structures that are beautiful as well as sustainable This unique and lavishly illustrated guide offers invaluable inspiration for the planning of sustainable structures and facilities Twenty four in depth case studies provide information for a wide variety of projects from schools offices and labs to libraries and a summer camp Each case study includes a description of the building how it works and how successful it has been

Building Capacity for Evaluation Stephen J. Higgs,2005

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