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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 datasets that are used in evaluating recommender systems are also discussed along with measurement metrics to determine the effectiveness of technique. 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 those 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

adapting buildings and cities to a changing climate Advances in Conceptual Modeling – Applications and Challenges Juan Trujillo, 2010 This book constitutes the refereed proceedings of workshops held at the 29th International Conference on Conceptual Modeling ER 2010 in Vancouver Canada in November 2010 The 31 revised full papers presented were carefully reviewed and selected from 82 submissions The papers are organized in sections on the workshops Semantic and Conceptual Issues in GIS SeCoGIS Conceptual Modeling of Life Sciences Applications CMLSA Conceptual Modelling of Services CMS Active Conceptual Modeling of Learning ACM L Web Information Systems Modeling WISM Domain Engineering DE ER and Foundations and Practices of UML FP UML Proceedings of the 2003 International Symposium on Performance Evaluation of Computer and Telecommunication Systems, July 20-24, 2003 Montreal, Quebec, Canada Mohammad Salameh Obaidat, 2003 Issues for 2011 cataloged as a serial in LC **Proceedings** Ez Nahouraii, 1994 The proceedings of the June 1994 symposium comprise technical papers in sessions devoted to assessment process software quality engineering prototyping and object oriented topics reengineering tools and workflow process tools No index Annotation copyright Book News Inc Portland Or **Tutorial on Models and Metrics for Software Management and Engineering** Victor R. Basili, 1980 This tutorial presents a new quantitative approach to software management and software engineering that has taken shape over the past few years **Probabilistic Safety Assessment and Management (PSAM6)** Evaristo J. Bonano, 2002 These two volumes contain the papers presented at the 6th International Conference on Probabilistic Safety Assessment and Management PSAM 6 probabilistic risk and safety assessment and management methods and techniques applied to complex systems These proceedings provide a collection of technical summaries on the application of risk and safety assessment management in 18 different technical disciplines terrorism risk assessment for aerospace systems environmental issues in developing countries risk assessment in transportation systems sustainable development and risk assessment in science and technology initiatives It brought together world recognized experts to discuss these topics along with emerging areas of direct relevance to practitioners of risk and safety assessment **Comparative Risk Assessment** Holger Schütz, 2006-08-25 Providing a catalogue of suggested solutions for different categories of issues this book offers a balanced overview and methodological examples for the practical implementation of the CRA It considers CRA in the USA Europe and Germany using case studies to analyze and exemplify the decision making processes and challenges involved The authors then go on to look at the practical lessons learned from these case studies together with an in depth discussion of the underlying scientific hypotheses Sound scientific knowledge for everyone who makes decisions whether government ministers regulators or company directors **Assessment of Geothermal Wastewater Disposal Effects Case Studies** Gabriel Nyongesa Wetang'ula, 2004 **The Earth Below** Scott Pace, 2000 The Science Data Buy SDB has been a success in supplying commercial remote sensing data that serves NASA science requirements but plans for its continuation are uncertain Although NASA has said that it will purchase science data when it is cost effective to do so rather than build new

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

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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

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Table of Contents Metrics And Case Studies Evaluation

1. Understanding the eBook Metrics And Case Studies Evaluation
 - The Rise of Digital Reading Metrics And Case Studies Evaluation
 - Advantages of eBooks Over Traditional Books
2. Identifying Metrics And Case Studies Evaluation
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Metrics And Case Studies Evaluation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Metrics And Case Studies Evaluation
 - Personalized Recommendations
 - Metrics And Case Studies Evaluation User Reviews and Ratings
 - Metrics And Case Studies Evaluation and Bestseller Lists
5. Accessing Metrics And Case Studies Evaluation Free and Paid eBooks
 - Metrics And Case Studies Evaluation Public Domain eBooks
 - Metrics And Case Studies Evaluation eBook Subscription Services
 - Metrics And Case Studies Evaluation Budget-Friendly Options
6. Navigating Metrics And Case Studies Evaluation eBook Formats

- ePub, PDF, MOBI, and More
- Metrics And Case Studies Evaluation Compatibility with Devices
- Metrics And Case Studies Evaluation Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Metrics And Case Studies Evaluation
 - Highlighting and Note-Taking Metrics And Case Studies Evaluation
 - Interactive Elements Metrics And Case Studies Evaluation
- 8. Staying Engaged with Metrics And Case Studies Evaluation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Metrics And Case Studies Evaluation
- 9. Balancing eBooks and Physical Books Metrics And Case Studies Evaluation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Metrics And Case Studies Evaluation
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Metrics And Case Studies Evaluation
 - Setting Reading Goals Metrics And Case Studies Evaluation
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Metrics And Case Studies Evaluation
 - Fact-Checking eBook Content of Metrics And Case Studies Evaluation
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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