

Collaborative Filtering Recommender Systems

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Abstract. One of the potent personalization technologies powering the adaptive web is collaborative filtering. Collaborative filtering (CF) is the process of filtering or evaluating items through the opinions of other people. CF technology brings together the opinions of large interconnected communities on the web, supporting filtering of substantial quantities of data. In this chapter we introduce the core concepts of collaborative filtering, its primary uses for users of the adaptive web, the theory and practice of CF algorithms, and design decisions regarding rating systems and acquisition of ratings. We also discuss how to evaluate CF systems, and the evolution of rich interaction interfaces. We close the chapter with discussions of the challenges of privacy particular to a CF recommendation service and important open research questions in the field.

9.1 Introduction

Collaborative Filtering is the process of filtering or evaluating items using the opinions of other people. While the term collaborative filtering (CF) has only been around for a little more than a decade, CF takes its roots from something humans have been doing for centuries - sharing opinions with others.

For years, people have stood over the back fence or in the office break room and discussed books they have read, restaurants they have tried, and movies they have seen - then used these discussions to form opinions. For example, when enough of

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Data Science & Exploration in Artificial Intelligence Gururaj H L, Francesco Flammini, Shreyas J, 2025-02-26 The book captures the essence of the International Conference on Data Science Exploration in Artificial Intelligence and offers a comprehensive exploration of cutting edge research in AI data science and their applications It covers a wide array of topics including advanced Data Science IoT Security Cloud Computing Networks Security Image Video and Signal Processing Computational Biology Computer and Information Technology It highlights innovative research contributions and practical applications offering readers a detailed understanding of current trends and challenges The findings emphasize the role of global collaboration and interdisciplinary approaches in pushing the boundaries of AI and data science Selected papers published by Taylor and Francis showcase pioneering work that is shaping the future of these fields This is an ideal read for AI and data science researchers industry professionals and students seeking to stay updated on the latest advancements and ethical considerations in these areas

Medical Big Data and Internet of Medical Things Aboul Hassanien, Nilanjan Dey, Surekha Borra, 2018-10-25 Big data and the Internet of Things IoT play a vital role in prediction systems used in biological and medical applications particularly for resolving issues related to disease biology at different scales Modelling and integrating medical big data with the IoT helps in building effective prediction systems for automatic recommendations of diagnosis and treatment The ability to mine process analyse characterize classify and cluster a variety and wide volume of medical data is a challenging task There is a great demand for the design and development of methods dealing with capturing and automatically analysing medical data from imaging systems and IoT sensors Addressing analytical and legal issues and research on integration of big data analytics with respect to clinical practice and clinical utility architectures and clustering techniques for IoT data processing effective frameworks for removal of misclassified instances practicality of big data analytics methodological and technical issues potential of Hadoop in managing healthcare data is the need of the hour This book integrates different aspects used in the field of healthcare such as big data IoT soft computing machine learning augmented reality organs on chip personalized drugs implantable electronics integration of bio interfaces and wearable sensors devices practical body area network BAN and architectures of web systems Key Features Addresses various applications of Medical Big Data and Internet of Medical Things in real time environment Highlights recent innovations designs developments and topics of interest in machine learning techniques for classification of medical data Provides background and solutions to existing challenges in Medical Big Data and Internet of Medical Things Provides optimization techniques and programming models to parallelize the computationally intensive tasks in data mining of medical data Discusses interactions advantages limitations challenges and future perspectives of IoT based remote healthcare monitoring systems Includes data privacy and security analysis of cryptography methods for the Web of Medical Things WoMT Presents case studies on the next generation medical chair electronic nose and pill cam are also presented

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Digital Health Technologies for Shared Decision Making Marcus Cheetham, Christoph A. Meier, Nikola Biller-Andorno, Helena Canhao, Anna Lisa Martin-Niedecken, Annina Gähwiler, 2025-05-22 Patient decision aids provide a promising means to empower patients to prepare and participate in Shared Decision Making SDM with health care professionals A wide range of clinically validated and non validated digital and non digital patient decision aids continue to be developed for use in diverse settings and clinical interventions The end users of a given aid may be heterogeneous in their needs abilities backgrounds and personal characteristics Many patient decision aids are developed with the aim of helping patients clarify and communicate their subjective values and preferences in relation to the medical choices at hand Knowledge of these values and preferences can help patients and health care professionals determine the medical intervention that is right for the patient Digital health technologies present unique opportunities for creating new ways to advance the design adoption usage and evaluation of patient centred decision aids and support the clarification and communication of subjective values and preferences However there is a dearth of systematic research on these opportunities This Research Topic focuses on the current use of and the opportunities that digital technologies present for furthering the design development deployment and usefulness of patient decision aids Potential themes include but are not limited to 1 Digital technology and patient decision aids 2 New approaches designs developments and innovations 3 Human factors in elucidating subjective values and preferences 4 Awareness and real world use of digital patient decision aids 5 Usability and acceptability of digital patient decision aids 6 Current and potential applications in different settings 7 Barriers and facilitators to use of digital technology in SDM 8 Future possibilities and challenges of patient decision aids and digital technology 9 Inclusion diversity and accessibility of patient decision aids with digital technology and 10 Ethical technical and regulatory design considerations This Research Topic welcomes original research review method and theory and perspective articles that address the diversity of themes around digital health technologies and human factors in patient decision aids Brief research reports and mini reviews are also encouraged Articles types should be selected that correspond with the stage

of research and scope of the contribution **Computation for Humanity** Justyna Zander, Pieter Mosterman, 2018-10-03
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