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Developing a Recommender system for web based learning

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Abstract - A Recommender System (RS) in an E-learning context is a software agent that tries to intelligently recommend actions to a learner, based on the actions of previous learners. This activity could be through online or from a simple web resource. An attempt is made in this paper to make a detailed review of the RS used for various applications with their merits and demerits .The review includes special reference to be made to data-mining techniques used for building the RS for online learning activities, which are based on learners access history to improve course materials navigation as well as assist the online learning process. The RS that are reviewed include I) Personal Recommender Systems II) Collaborative or Social Filtering Recommender Systems III) Context Based Recommender Systems IV) Personal Logic Recommender Systems V) News Dude Systems etc. In general a RS provides the users details about items they might wish to acquire. Recommendations made by such systems can help the users, navigate through large information available. The major contribution of present work is that the detailed review presented in this paper paves way for building knowledge based RS which overcomes the limitations of existing RS and helps the learners for effective use of E-learning modules.