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**Book Recommendations System**

**Project Proposal of**

**“Machine Learning”**

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**“Book Recommendation System”**

**Introduction**

There is a way for an application to predict the user responses to options. Such a system is called a Recommender system or Recommendation system. Recommendation systems are derived from information filtering systems because they improve the quality of search results and provide elements that are more relevant to the search item or that are related to the search history of the user. That is our system will help the user to find its desired item based on his choice/taste / likeliness for a particular set of things or a variety of related things.

**Types of Recommendation Systems**

1. **Content-Based Systems:**

This system is based on the user’s history. For example, if user have read the books and novels on specific topics or watched horror movies than that particular application like Netflix will always recommend a movie to you that is classified as horror movies.

1. **Collaborative filtering systems:**

This system is based on measures of similarity between users and items. Items that are recommended to a user are those items that are preferred by the users having same taste.

**Applications**

These are active information filtering systems that personalize the information provided to a user based on their interests, relevance of the information, etc. Recommendation systems are widely used to recommend movies, books, restaurants, places to visit, items to buy, etc.

**Our Recommendation System**

Our User Recommendation System will be Book Recommendation System Application based on content-based recommendation approach where when we enter the name of a book, the Book recommendation system will look at history/interests of the user and System will recommend the user those books with similar concepts for the user.

**Dataset**

There is a choice for selecting the dataset that we can use a data set based on user’s previous record, user’s reviews or based on comments given by the users.

**Objective**

This recommendation system not only provide the facilities and assistance in marketing of different books according to their previous history, reviews/user’s likeness that is books having the best contents but also on the other hand it will help the users to find the books according to their interest. That is this system broadly recommends products to customers best suited to their tastes and traits.

**Scope of our project**

The proposed project is a system that provides recommendations of the best books. This recommendation system will be developed in python and it will be integrated with a web application or mobile application. That is, it will be a web based or mobile based which as user can use for searching/reading books and our system will also facilitate the user by User Recommendation Approach.

**Tools and Technologies**

**IDE:** Jupyter Notebook, Visual Studio Code, Android Studio

**Programming languages:** Python, Javascript, Jquery, Ajax, HTML, CSS, Java

**Database:** Microsoft SQL Server

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