CAPSTONE PROJECT SUMMARY

Instructions:-

1.Please fill the required information.
2.Avoid Grammatical Error.

Please write a short summary of your capstone project and its components.Describe the problem statement,your approach and your conclusion.

One of the best examples of a recommender system is the Book Recommender System. We can recommend books to a user based on their history or preferences. The dataset given to vs was divided into three sections: books, user information, and review information.
Collaborative filtering needs a set of items that are based on the user's historical choices. This system does not require a good amount of product features to work. An embedding or feature vector describes each item and User, and it sinks both the items and the users in a similar embedding location. It creates enclosures for items and users on its own. Other purchaser's reactions are taken into consideration while suggesting a specific product to the primary user. It keeps track of the behavior of all users before recommending which item is mostly liked by users. It also relates similar users by similarity in preference and behavior towards a similar product when proposing a product to the primary customer.
Two sources are used to record the interaction of a product user. First, through implicit feedback, User likes and dislikes are recorded and noticed by their actions like clicks, listening to music tracks, searches, purchase records, page views, etc.

Our primary goal was to clean the data and create a final version.
On the basis of rating, we create a pivot table between user and book id in the final dataset.
We calculate the relationship between each book using k nearest neighbour.

Conclusion:-

The top 3 most prolific authors are Stephen King, Nora Roberts and John Grisham.

- The most popular novels/books are The Secret Life of Bees, The Da Vinci Code and The Lovely Bones.

- **The Year in which highest number of book have been published is 2002 and the Publisher with highest number of publications is "Ballantine Books".**

- **The Recommendation system has been implemented using Collaborative filtering and correlation property on unlabeled data. The top 10 most relevant and correlated books can be recommended for any given book in the data using this function. Clustering doesn't help much in this project and hence has not been used.**

Github:-

Google Drive:-

Heroku WebApp:-