**Books Recommendation System**

Recommendation of books using 3 kinds of recommendation algorithms.

1. Top Rated Books
2. Most Rated Books
3. Item-Item Based Recommendation (Collaborative Filtering)

Work Flow:

* Connecting to dynamodb server using boto3’s dynamodb interface
* Downloading the tables using scan function converting data to “.csv” form and working on it
* Filtering of Data
* Recommending top rated books
* Recommending most rated books
* Recommending books using Item-Item based Collaborative filtering

Problems Faced:

1. Connecting aws with python.

The tool used in this is boto3 interface.

<https://boto3.amazonaws.com/v1/documentation/api/latest/guide/dynamodb.html>

<http://boto.cloudhackers.com/en/latest/dynamodb_tut.html>

1. Working Directly on json format.

So I resolved it by saving items with its keys in csv format in a csv file and then working on csv tables.

<https://medium.com/@quodlibet_be/an-overview-of-tools-to-export-from-dynamoddb-to-csv-d2707ad992ac>

1. Handling of Null data.

There is a column Genre with some Null values. Recommended the books by ignoring the column because Null data may lead to wrong recommendations.