

**Description:** You will find a data file that includes the following data structure:

*UserId*  
*ProductId*  
*Rating*  
*Timestamp*

The dataset includes users, products they purchased, and a 1-5 rating score they provided, along with a timestamp of their rating. There is no additional data available at this time (product category, user history at company, etc.).

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**Assignment:** Please review the attached data and product a *Recommendation Engine* focused on answering one of the two following questions:

**Q1:** Provide a list of at least 1, and at most the top 5, recommended products for each of the users found below:

B00DGW1SFK  
B00HFF691C  
B017F8361O  
B00F1XUQDC  
B00NNLKABW

**Q2:** Assume you have a new user with no historical information on them. What product would you recommend if they purchased a product from the list below and rated it highly (5/5). Please provide a list of top recommendations for each of the products below.

A696ZTE6VBU4U  
A6CEOJ5ISIGRB  
A2PLGB52VCSYHG  
A2PUZMHH482FU7  
A2Q2V2KMKOQDI0

In addition to the recommendation output, please share all code used for exploratory analysis and model building. If you find any limitations or an inability to produce a recommendation for Q1 or Q2, please state the reasoning and if you would propose any alternatives to the goal of identifying the best product recommendation for user(s).

[Google Drive with Data Set](#) - Includes this document and CSV/Google Sheets files.

[Data Set \(CSV\)](#)

[Data Set \(Google Sheets\)](#)