Problem Statement

Capillary would like to welcome you to build a recommender system for its top fashion retail client to increase the client's user engagement. The main goal is to come up with an algorithm which will recommend best suited items from the inventory to a user in order to improve his/her shopping experience. On the basis of user transaction history, collaborative information and item features, recommend the ranked top 10 items for a user which means that the participant has to rank the recommendations for any user in the order of choice.

As part of this challenge, you are provided a retail brand dataset with user transaction details, item tagged fashion images, item attributes and other metadata.

Data Dictionary

1. Train.zip contains the following:

- train.csv

training data contains transaction history of 27778 users for 7 months (April - October)

Variable	**Description**
UserId	Unique ID for user
productid	Unique ID for product
Quantity	Quantity of product bought
OrderDate	Timestamp of transaction

- product_attributes.csv

Variable	**Description**
productid	Unique ID for product
attribute_name	Name of attribute (fit/sleeve/Fabric….)
attributevalue	Anonymised Attribute Value (unordered)

- Images Folder

Contains the images corresponding to all items with the format <productid>.jpg

2. test.csv

The test data contains the user list for which the participant is supposed to come up with the best recommendations (maximum 10). These users represent a subset of users from the train data who made atleast 1 transaction in the 2 months following the last transaction in the train set.

Variable	**Description**
UserId	Unique ID for user

Evaluation Metric

The evaluation metric for this contest is Mean Average Precision at K - MAP@K (K = 10)