Recommending similar items in large-scale online marketplaces

- 1. Please summarize and try to assess the approach described in this paper http://bit.ly/2oYesuo. What is the motivation? What are the key ideas? How does the approach differ from collaborative filtering or a "naive information retrieval system". What are possible shortcomings of the approach? Can you think of possible extensions? Please prepare a short presentation to 2-3 people that have a machine learning background.
- 2. In this dataset http://bit.ly/2qV472p you will find a sample of listings taken from the south african olx site as well as a list of popular recent keywords on oix.co.za
 - a. Implement a simple approach to cluster the listings data into similar items clusters that can be used in this way: If the items A and B are part of the same cluster it is reasonable to recommend B to a user that is viewing or has viewed A. Feel free to use the category information that sellers have used to classify their listings in any way.
 - b. How do you evaluate the quality of your results? How does it compare to a naive approach that takes random listings from the same category?
 - c. What are possible shortcomings and extensions of your implementation? How are newly listed (unseen) listings assigned to your clusters?
 - d. [Optional] If you like the clustering approach (the offline part) described in the paper feel free to implement a MVP using both datasets. Go ahead and simplify the task if you want or only use a subset of the data.
 - e. Please submit your code in a GitHub repository and share it 24h before the presentation