

Report

News Recommendation using GAN

(1) Data Preprocessing:

Processing the data set to get the features on which the operation need to be performed. Following are steps for getting suitable features for input to GAN.

- (i) assign each user to a number say user-id (0-n) and each article to number say article-id(0-m)
- (ii) we will make 3 column dataset in which first column will be user-id, second column will be article-id and third will be score of that category of that article-id
- (iii) To get the categories of the news we need to define categories present in the actual dataset from which first we get extracted possible categories.
- (iv) After that we made a article-id to bag of words mapping in which, in given dataset each article-id has some data so from which we've made bag of words of that data.
- (v) Now, we are identifying that given article is from which category. And count that user has read which category new how many times which will be third column
- (vi) Will Apply GAN on the dataset which will be generated.

(2) Apply GAN:

Right Now we've applied GAN on the sample data which we've created randomly using that test.py code. But we are doing the classification using bag of word theory.