

Lab Exercise 10 - Pre-trained Models

In this lab exercise, we will create document vectors from pre-trained models.

- 1. Download the pre-trained models for the following word embedding models check the notebooks uploaded.
 - a. GloVe
 - b. Word2Vec
- 2. Create document vectors by the following formula:

where:

- a. doc_Vec_i : i^{th} document in the corpus.
- b. w_j: word vector of jth word in the document. The word vector is taken model.

For example for a document d = "I like apple". Its doc_Vec is created as follows:

dov_Vec	1	like	apple
1.696285	0.673522	0.033174	0.989588
0.803228	-0.34009	0.162396	0.98092
-0.76719	0.110601	-0.41541	-0.46238
-0.19525	-0.95803	0.361487	0.401287
1.78991	0.872004	0.650369	0.267536
0.967644	0.227021	0.989982	-0.24936

- c. (Out-Of-Vocabulary) OOV words can be ignored.
- 3. (*Optional*) For fastText, download a non-English language. Test few words similarities.