

Assignment1: CS728

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I have implemented KNN and SVM algorithms. There is no single winner for all prepositions.

For some prepositions SVM is working better:

Example: About, across, after, along, behind, like, off, onto, to

For some prepositions KNN is working better:

Example: above, against, among, around, at, before, beneath, between, by, down, during, for, from, in , inside, into, of, on, over, round, through, towards, with.

Some prepositions have only one labels: as, beside

We can see that most of the KNN is performing better than SVM. For prepositions who have less numbers of labels(3-4) SVM works better for them else KNN is performing better.

I have implemented all functions and algorithms in colab and I am sharing the folder in which everything has been assembled. For generating output you only have to run all cells(it will take some time as pretrained embeddings size is 1.6GB)

Link to folder:

https://drive.google.com/drive/folders/1dBZh0DO3KXqJEWDVB05I6zI5-XPMp_RS?usp=sharing