

Error Analysis

- CSLS Retrieval:
 - The purpose of introducing CSLS was to remove the problem of hubness due to nearest neighbors. But through experiments we observed that introducing CSLS didn't always help. It can be made more robust by considering more number of nearest neighbors.
- Dictionary not updating:
 - Another thing which we observed was that the solution was not updating after every iteration. We found that the root cause of this problem is that the dictionary D is not getting updated after every iteration and hence to improvise we focus on varying D after every iteration.
- Same english word is always the nearest neighbor:
 - Another error is that a single english word is many times most similar to many hindi words. The root cause of this is that we are only focusing on a single direction (hindi - english) due to which the most frequent words on the english side turn out to be most similar to many hindi words.