

## Assignment 6

- Both models are giving almost same F-1 score for me, but I can say that LDA performs slightly better than Kmeans here. Result of Kmeans fluctuate every time I run the model but for LDA it's constant. So 2/10 times Kmeans performs better than LDA and 8/10 times LDA performs better than Kmeans.
- For parameter min\_df I tried with 1,30,15,3 and 5 but 5 was giving me best result so I settled up with 5 for min\_df and for number of iterations at 20 iterations my perplexity score was getting almost constant which means I was getting almost best possible f1 score but as Output given in professor was having 25 iteration I used 25 iterations. Otherwise 20 will be best number for me as it would take less time to train model.