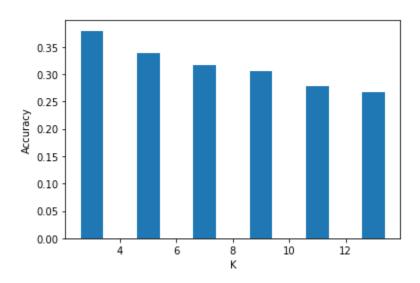
HW5: KNN & SVM

Nick Hayeck

KNN



features: BOW, best_k: 3, test accuracy: 0.6116666666666667

3 0.3678571428571429

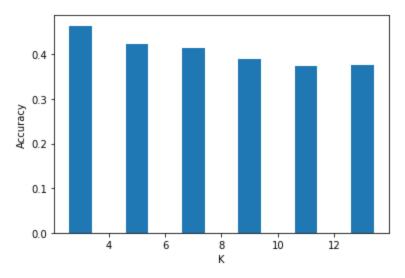
5 0.34571428571428575

7 0.33

9 0.3135714285714286

11 0.2907142857142857

13 0.27



3 0.4892857142857143

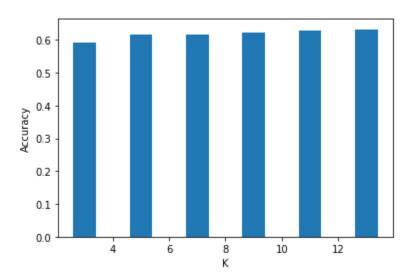
5 0.4435714285714286

7 0.4128571428571428

9 0.39357142857142857

11 0.3757142857142857

13 0.37357142857142855



found best k for BERT model, it was 9. starting classifcation! features: BERT, best_k: 9, test accuracy: 0.718333333333333333

3 0.6528571428571428

5 0.6628571428571428

7 0.6707142857142857

9 0.6814285714285714

11 0.6707142857142857 13 0.6707142857142857

SVM

Three runs with different kernels (note that scores are rounded to two decimal places for brevity):

Score=0.84 with params C=1, kernel=rbf, degree=1 Score=0.85 with params C=1, kernel=poly, degree=1 Score=0.85 with params C=1, kernel=linear, degree=1