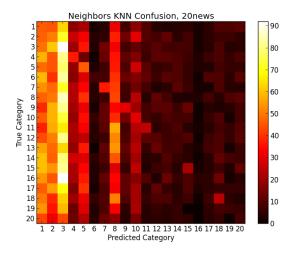
Data 1: KNN 20news

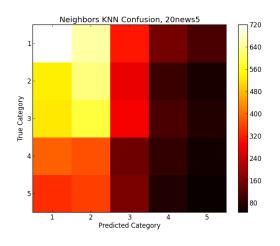
Classification Report:    alt.atheism	Rep	ort	File	: Ne	eighb	ors_	KNN_	_20ne	ws_r	еро	rt.tx	t								
Comp.os.ms-windows.misc	Cla	ssif	icat	ion	Repo	rt:	þ	reci	sion		reca	11	f1-s	core	s	uppo	rt			
comp.os.ms-windows.misc				al	t.at	heis	m		0.05		0.	14		0.07		3	19			
comp.sys.ibm.pc.hardware comp.sys.mac.hardware comp.sys.mac.hardware necomp.sys.mac.hardware necomp.sys				comp	.gra	phic	S		0.05					0.08		3	89			
Comp.sys.mac.hardware	CO	mp.o	s.ms	-wir	idows	.mis	С		0.06	,	0.	23		0.10		3	94			
Comp.windows.x	com	p.sy	s.ib	m.pc	.har	dwar	e		0.09	1	0.	09		0.09		3	92			
misc.forsale rec.autos 0.06 0.11 0.07 396 rec.motorcycles 0.14 0.08 0.10 398 rec.sport.baseball 0.07 0.08 0.07 397 rec.sport.bockey 0.15 0.06 0.09 399 sci.crypt 0.07 0.08 0.04 396 sci.electronics 0.05 0.02 0.03 393 sci.med 0.04 0.02 0.02 396 sci.space 0.15 0.06 0.09 399 sci.space 0.15 0.06 0.08 394 soc.religion.christian 0.14 0.01 0.02 398 talk.politics.guns 0.05 0.01 0.02 364 talk.politics.mideast 0.13 0.06 0.09 376 talk.politics.misc 0.07 0.02 0.03 310 talk.religion.misc 0.05 0.03 0.04 251 avg / total 0.09 0.07 0.07 7532		comp	. sys	.mac	.har	dwar	e		0.07	'	0.	12		0.09		3	85			
rec.autos			С																	
rec.motorcycles				mis	c.fo	rsal	e				0.	09		0.12		3	90			
rec.sport.baséball rec.sport.hockey					rec.	auto	S		i						_					
rec.sport.hockey sci.crypt 0.07 0.03 0.04 396 sci.electronics 0.05 0.02 0.03 393 sci.electronics 0.05 0.02 0.03 393 sci.electronics 0.05 0.02 0.02 396 sci.space 0.15 0.06 0.08 394 sci.space 0.15 0.06 0.08 394 sci.space 0.05 0.01 0.02 364 talk.politics.guns 0.05 0.01 0.02 364 talk.politics.mideast 0.13 0.06 0.09 376 talk.politics.misc 0.07 0.02 0.03 310 talk.religion.misc 0.05 0.03 0.04 251 avg / total 0.09 0.07 0.07 7532																				
Sci.electronics 0.05 0.02 0.03 396 sci.space 0.15 0.06 0.08 394 soc.religion.christian 0.14 0.01 0.02 398 talk.politics.mideast 0.13 0.06 0.09 376 talk.politics.misc 0.07 0.02 0.03 310 talk.religion.misc 0.05 0.01 0.02 398 talk.religion.misc 0.05 0.01 0.02 364 talk.religion.misc 0.05 0.01 0.02 364 talk.religion.misc 0.05 0.03 0.04 251 avg / total 0.09 0.07 0.07 7532		r							'	0.	80		0.07		3	97				
sci.electronics			rec	spc	rt.h	ocke	У		0.15											
Sci.med sci.space 0.15 0.06 0.08 394 sci.space 0.15 0.06 0.08 394 talk.politics.guns 0.05 0.01 0.02 398 talk.politics.mideast 0.13 0.06 0.09 376 talk.politics.misc 0.07 0.02 0.03 310 talk.religion.misc 0.05 0.00 0.07 0.02 511 avg / total 0.09 0.07 0.07 7532  Confusion Matrix:  46 45 63 18 22 2 4 31 8 18 10 4 3 4 5 2 5 9 9 11 47 51 72 26 33 4 5 38 14 30 10 8 12 5 8 2 5 7 7 5 5 49 61 92 20 36 3 14 32 8 12 8 11 8 8 8 2 4 9 4 5 5 8 45 81 37 14 1 13 36 12 16 7 11 11 9 7 3 7 9 6 9 48 45 78 19 46 3 7 37 9 27 11 6 7 10 6 3 3 8 6 6 5 9 40 83 17 29 8 8 40 13 16 12 7 11 10 6 1 10 9 5 11 53 48 72 23 34 4 37 42 8 14 8 3 5 11 7 2 2 9 4 4 4 7 50 86 23 40 4 7 43 7 24 4 12 8 3 3 3 8 4 9 11 53 88 57 66 22 33 4 11 57 8 23 25 5 7 9 9 4 2 4 8 6 10 4 51 81 21 25 4 7 52 9 21 11 11 7 8 10 1 7 9 6 11 56 48 63 19 37 1 12 54 12 4 6 13 8 8 4 22 2 4 7 3 12 54 45 92 21 37 3 12 34 20 21 4 12 6 4 9 3 5 6 6 6 50 39 62 20 31 6 10 51 10 21 6 9 9 5 7 1 7 24 5 3				_																
soc.religion.christian         0.15         0.06         0.08         394           talk.politics.guns         0.05         0.01         0.02         364           talk.politics.mideast         0.13         0.06         0.09         376           talk.politics.misc         0.07         0.02         0.03         310           talk.religion.misc         0.05         0.03         0.04         251    Confusion Matrix:  46 45 63 18 22 2 4 31 8 18 10 4 3 4 5 2 5 9 9 11  47 51 72 26 33 4 5 38 14 30 10 8 12 5 8 2 5 7 7 5 5  49 61 92 20 36 3 14 32 8 12 8 11 8 8 8 2 4 9 4 5  58 45 81 37 14 1 13 36 12 16 7 11 11 9 7 3 7 9 6 9  48 45 78 19 46 3 7 37 9 27 11 6 7 10 6 3 3 8 6 6  59 40 83 17 29 8 8 40 13 16 12 7 11 10 6 1 10 9 5 11  53 48 72 23 34 4 37 42 8 14 8 3 5 11 7 2 2 9 4 4  47 50 86 23 34 4 7 43 7 24 4 12 8 3 3 3 8 4 9 11  53 48 72 23 34 4 37 42 8 14 8 3 5 11 7 7 2 2 9 4 4  47 50 86 23 30 4 7 7 37 92 7 11 6 7 10 6 3 3 3 8 4 9 11  53 48 72 23 34 4 37 42 8 14 8 3 5 11 7 7 2 2 9 4 4  47 50 86 23 33 4 11 57 8 23 25 5 7 9 4 2 4 8 6 10  45 58 73 19 35 6 12 39 14 30 8 6 9 8 8 1 6 9 2 8  38 57 66 22 33 4 11 57 8 23 25 5 7 9 4 2 4 8 6 10  44 51 81 21 25 4 7 52 9 21 11 11 7 8 10 1 7 9 6 11  56 48 63 19 37 1 12 54 12 24 6 13 8 8 4 2 2 8 9 2 7  60 47 80 27 29 5 10 45 10 21 4 5 10 6 5 1 4 12 8 7  60 54 82 22 34 3 7 29 6 25 3 7 8 4 4 22 2 4 7 3 12  54 45 92 21 37 3 12 34 12 17 10 3 13 6 9 5 5 14 2 4  65 57 00 16 40 2 9 32 12 21 4 12 6 4 9 3 5 6 6 6 6  50 39 62 20 31 6 10 51 10 21 6 9 9 5 7 1 7 7 24 5 3			SC	i.el									0.03							
soc.religion.christian talk.politics.guns 0.05 0.01 0.02 364 talk.politics.mideast 0.13 0.06 0.09 376 talk.politics.misc 0.07 0.02 0.03 310 talk.religion.misc 0.05 0.03 0.04 251  avg / total 0.09 0.07 0.07 7532   Confusion Matrix: 46 45 63 18 22 2 4 31 8 18 10 4 3 4 5 5 2 5 9 9 11 47 51 72 26 33 4 5 38 14 30 10 8 12 5 8 2 5 7 7 5 49 61 92 20 36 3 14 32 8 12 8 11 8 8 8 2 4 9 4 5 8 4 5 8 4 9 4 5 8 4 8 8 7 8 19 4 9 4 5 8 8 8 8 7 8 19 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8																_				
talk.politics.guns																				
talk.politics.misc 0.07 0.02 0.03 310 talk.religion.misc 0.05 0.03 0.04 251  avg / total 0.09 0.07 0.07 7532	S																			
talk.religion.misc																				
Talk.religion.misc																				
Confusion Matrix:  46    45    63    18    22    2    4    31    8    18    10    4    3    4    5    2    5    9    9    11   47    51    72    26    33    4    5    38    14    30    10    8    12    5    8    2    5    7    7    5    49    61    92    20    36    3    14    32    8    12    8    11    8    8																				
Confusion Matrix:  46		τ	aıĸ.	reti	gion	.m15	С		0.05	1	0.	03		0.04		2	51			
46       45       63       18       22       2       4       31       8       18       10       4       3       4       5       2       5       9       9       11         47       51       72       26       33       4       5       38       14       30       10       8       12       5       8       2       5       7       7       5         49       61       92       20       36       3       14       32       8       12       8       11       8       8       8       2       4       9       4       5         58       45       81       37       14       1       13       36       12       16       7       11       11       9       7       3       7       9       6       9         48       45       78       19       46       3       7       37       9       27       11       6       7       10       6       3       3       8       6       6         59       40       83       17       29       8       8       40       13       16				av	/g /	tota	ι		0.09	)	0.	07		0.07		75	32			
46       45       63       18       22       2       4       31       8       18       10       4       3       4       5       2       5       9       9       11         47       51       72       26       33       4       5       38       14       30       10       8       12       5       8       2       5       7       7       5         49       61       92       20       36       3       14       32       8       12       8       11       8       8       8       2       4       9       4       5         58       45       81       37       14       1       13       36       12       16       7       11       11       9       7       3       7       9       6       9         48       45       78       19       46       3       7       37       9       27       11       6       7       10       6       3       3       8       6       6         59       40       83       17       29       8       8       40       13       16																				
47       51       72       26       33       4       5       38       14       30       10       8       12       5       8       2       5       7       7       5         49       61       92       20       36       3       14       32       8       12       8       11       8       8       8       2       4       9       4       5         58       45       81       37       14       1       13       36       12       16       7       11       11       9       7       3       7       9       6       9         48       45       78       19       46       3       7       37       9       27       11       6       7       10       6       3       3       8       6       6         59       40       83       17       29       8       8       40       13       16       12       7       11       10       6       1       10       9       5       11         53       48       72       23       34       4       37       42       8       14	 Con	 fusi	 on M	 latri	x:															
49       61       92       20       36       3       14       32       8       12       8       11       8       8       8       2       4       9       4       5         58       45       81       37       14       1       13       36       12       16       7       11       11       9       7       3       7       9       6       9         48       45       78       19       46       3       7       37       9       27       11       6       7       10       6       3       3       8       6       6         59       40       83       17       29       8       8       40       13       16       12       7       11       10       6       1       10       9       5       11         53       48       72       23       34       4       37       42       8       14       8       3       5       11       7       2       2       9       4       4         47       50       86       23       40       4       7       43       7       24	46	45	63	18	22	2	4	31	8	18	10	4	3		5		5	9	9	11
58       45       81       37       14       1       13       36       12       16       7       11       11       9       7       3       7       9       6       9         48       45       78       19       46       3       7       37       9       27       11       6       7       10       6       3       3       8       6       6         59       40       83       17       29       8       8       40       13       16       12       7       11       10       6       1       10       9       5       11         53       48       72       23       34       4       37       42       8       14       8       3       5       11       7       2       2       9       4       4         47       50       86       23       40       4       7       43       7       24       4       12       8       3       3       3       8       4       9       11         39       58       81       21       31       2       12       34       30       20																2				
48       45       78       19       46       3       7       37       9       27       11       6       7       10       6       3       3       8       6       6         59       40       83       17       29       8       8       40       13       16       12       7       11       10       6       1       10       9       5       11         53       48       72       23       34       4       37       42       8       14       8       3       5       11       7       2       2       9       4       4         47       50       86       23       40       4       7       43       7       24       4       12       8       3       3       3       8       4       9       11         39       58       81       21       31       2       12       34       30       20       8       11       11       7       13       1       4       3       4       8         46       58       73       19       35       6       12       39       14       30																				
59       40       83       17       29       8       8       40       13       16       12       7       11       10       6       1       10       9       5       11         53       48       72       23       34       4       37       42       8       14       8       3       5       11       7       2       2       9       4       4         47       50       86       23       40       4       7       43       7       24       4       12       8       3       3       3       8       4       9       11         39       58       81       21       31       2       12       34       30       20       8       11       11       7       13       1       4       3       4       8         46       58       73       19       35       6       12       39       14       30       8       6       9       8       8       1       6       9       2       8         38       57       66       22       33       4       11       57       8       23												11	11						6	
53       48       72       23       34       4       37       42       8       14       8       3       5       11       7       2       2       9       4       4         47       50       86       23       40       4       7       43       7       24       4       12       8       3       3       3       8       4       9       11         39       58       81       21       31       2       12       34       30       20       8       11       11       7       13       1       4       3       4       8         46       58       73       19       35       6       12       39       14       30       8       6       9       8       8       1       6       9       2       8         38       57       66       22       33       4       11       57       8       23       25       5       7       9       4       2       4       8       6       10         44       51       81       21       25       4       7       52       9       21																				
47       50       86       23       40       4       7       43       7       24       4       12       8       3       3       3       8       4       9       11         39       58       81       21       31       2       12       34       30       20       8       11       11       7       13       1       4       3       4       8         46       58       73       19       35       6       12       39       14       30       8       6       9       8       8       1       6       9       2       8         38       57       66       22       33       4       11       57       8       23       25       5       7       9       4       2       4       8       6       10         44       51       81       21       25       4       7       52       9       21       11       11       7       8       10       1       7       9       6       11         56       48       63       19       37       1       12       54       12       24																				
39       58       81       21       31       2       12       34       30       20       8       11       11       7       13       1       4       3       4       8         46       58       73       19       35       6       12       39       14       30       8       6       9       8       8       1       6       9       2       8         38       57       66       22       33       4       11       57       8       23       25       5       7       9       4       2       4       8       6       10         44       51       81       21       25       4       7       52       9       21       11       11       7       8       10       1       7       9       6       11         56       48       63       19       37       1       12       54       12       24       6       13       8       8       4       2       8       9       2       7         60       47       80       27       29       5       10       45       10       21																			-	-
46       58       73       19       35       6       12       39       14       30       8       6       9       8       8       1       6       9       2       8         38       57       66       22       33       4       11       57       8       23       25       5       7       9       4       2       4       8       6       10         44       51       81       21       25       4       7       52       9       21       11       11       7       8       10       1       7       9       6       11         56       48       63       19       37       1       12       54       12       24       6       13       8       8       4       2       8       9       2       7         60       47       80       27       29       5       10       45       10       21       4       5       10       6       5       1       4       12       8       7         60       54       82       22       34       3       7       29       6       25																				
38       57       66       22       33       4       11       57       8       23       25       5       7       9       4       2       4       8       6       10         44       51       81       21       25       4       7       52       9       21       11       11       7       8       10       1       7       9       6       11         56       48       63       19       37       1       12       54       12       24       6       13       8       8       4       2       8       9       2       7         60       47       80       27       29       5       10       45       10       21       4       5       10       6       5       1       4       12       8       7         60       54       82       22       34       3       7       29       6       25       3       7       8       4       22       2       4       7       3       12         54       45       92       21       37       3       12       34       12       17																				
44       51       81       21       25       4       7       52       9       21       11       11       7       8       10       1       7       9       6       11         56       48       63       19       37       1       12       54       12       24       6       13       8       8       4       2       8       9       2       7         60       47       80       27       29       5       10       45       10       21       4       5       10       6       5       1       4       12       8       7         60       54       82       22       34       3       7       29       6       25       3       7       8       4       22       2       4       7       3       12         54       45       92       21       37       3       12       34       12       17       10       3       13       6       9       5       5       14       2       4         46       55       70       16       40       2       9       32       12       21																				
56     48     63     19     37     1     12     54     12     24     6     13     8     8     4     2     8     9     2     7       60     47     80     27     29     5     10     45     10     21     4     5     10     6     5     1     4     12     8     7       60     54     82     22     34     3     7     29     6     25     3     7     8     4     22     2     4     7     3     12       54     45     92     21     37     3     12     34     12     17     10     3     13     6     9     5     5     14     2     4       46     55     70     16     40     2     9     32     12     21     4     12     6     4     9     3     5     6     6     6       50     39     62     20     31     6     10     51     10     21     6     9     9     5     7     1     7     24     5     3						-									-					
60 47 80 27 29 5 10 45 10 21 4 5 10 6 5 1 4 12 8 7 60 54 82 22 34 3 7 29 6 25 3 7 8 4 22 2 4 7 3 12 54 45 92 21 37 3 12 34 12 17 10 3 13 6 9 5 5 14 2 4 46 55 70 16 40 2 9 32 12 21 4 12 6 4 9 3 5 6 6 6 50 39 62 20 31 6 10 51 10 21 6 9 9 5 7 1 7 24 5 3																				
60 54 82 22 34 3 7 29 6 25 3 7 8 4 22 2 4 7 3 12 54 45 92 21 37 3 12 34 12 17 10 3 13 6 9 5 5 14 2 4 46 55 70 16 40 2 9 32 12 21 4 12 6 4 9 3 5 6 6 6 50 39 62 20 31 6 10 51 10 21 6 9 9 5 7 1 7 24 5 3																				
54 45 92 21 37 3 12 34 12 17 10 3 13 6 9 5 5 14 2 4 46 55 70 16 40 2 9 32 12 21 4 12 6 4 9 3 5 6 6 6 50 39 62 20 31 6 10 51 10 21 6 9 9 5 7 1 7 24 5 3																				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$																				
50 39 62 20 31 6 10 51 10 21 6 9 9 5 7 1 7 24 5 3	_																			
	54	36	59	13	29	3	9	33	5	22	4	6	5	6	0	0	5	8	7	6
43 31 43 14 23 4 13 18 4 15 4 5 4 6 5 0 4 6 1 8	_																			

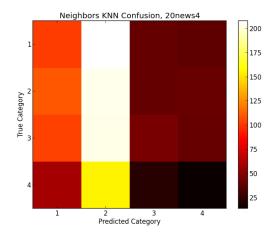


## Data 2: KNN 20news5 and 20news4

Repo	rt Fi	le: 1	Neighk	ors_K	NN_20news	5_report.tx	ĸt	 	 
Clas	sific	ation	n Repo	ort:					
			precis		recall	f1-score	support		
CC	mpute	rs	C	.29	0.37	0.32	1955		
rec	reati	on	C	24	0.40	0.30	1590		
	scien	ce	C	24	0.18	0.21	1579		
p	oliti	CS	C	17	0.08	0.11	1050		
-	eligi		C	13	0.05	0.07	968		
avg	/ tot	al	C	.23	0.25	0.23	7142		
Conf	usion	Mati	rix:						
720	658	313	153	111					
532	633	270	95	60					
526	589	283	110	71					
390	370	148	87	55					
337	356	160	69	46					

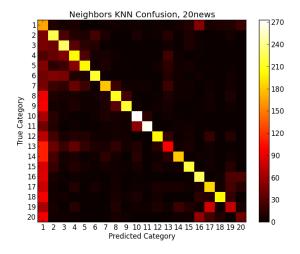
337 356 160 69	46					
Report File: Neigh	bors_KNN_2Une	ws4_repor	t.txt			
Classification Rep	ort.:				 	
		recall	f1-score	support		
comp.graphics	0.27	0.26	0.27	389		
talk.religion.misc	0.26	0.52	0.35	396		
sci.space	0.31	0.12	0.17	394		
rec.autos	0.10	0.06	0.07	251		
avg / total	0.25	0.26	0.23	1430		
Confusion Matrix:						
102 208 40 39						
110 204 40 42						
104 203 46 41						
59 155 23 14						





Data 3: KNN 20news, dim=500

Repo	rt Fi	le: N	eighb		NN_20	news_	500_r	eport	.txt							_			
Clas	sific	ation	Repo																
					pre	cisio	n	recal	l İ.	1-scor	e s	suppor	t						
		а	lt.at	heism		0.1	1	0.5	2	0.1	8	31	.9						
		com	p.gra	phics		0.4	0	0.5	8	0.4	8	38	9						
com	p.os.	ms-wi	ndows	.misc		0.5	1	0.5	9	0.5	5	39	4						
				dware		0.4		0.5		0.4		39							
С	omp.s	_		dware		0.6		0.5		0.5		38							
		_		lows.x		0.7		0.5		0.6		39							
		mı		rsale		0.6		0.4		0.5		39							
		x00 m		autos ycles		0.6		0.5		0.5		39							
				eball		0.7		0.6		0.6		39							
		-		ockey		0.8		0.6		0.7		39							
	_			crypt		0.7		0.5		0.6		39							
		sci.e		onics		0.4		0.2		0.3		39	13						
			sc	:i.med		0.7	2	0.4	6	0.5	6	39	16						
				space		0.7		0.5		0.6		39							
SC		-		stian		0.6		0.5		0.5		39							
		_		guns.		0.5		0.5		0.5		36							
t	-			deast		0.8		0.5		0.6		37 31							
		_		.misc .misc		0.3		0.2		0.2		25							
	Lai	к.гет	19101	I.IIIISC		0.3	5	0.1	O	0.2	۷	2.	1						
		a	.vg /	total		0.6	0	0.5	1	0.5	4	753	2						
																-			
	usion				_		_						_			_			
167 46	9 225	5 27	7 10	0	1 23	3 7	4 1	2	3 7	2	3	2 11	5 2	11 8	51 2	6 0	8 2	9 5	21 0
45	40	231	33	14	23 9	2	1	0	1	0	0	4	1	8	3	1	0	0	1
29	38	47	203	27	5	6	3	1	2	1	0	21	3	0	2	1	1	0	2
49	14	21	52	201	4	8	2	2	1	0	4	14	4	5	0	2	0	2	0
42	48	45	10	7	216	2	2	0	0	0	1	10	4	2	3	0	0	3	0
44	21	15	39	21	3	180	20	4	3	3	1	21	3	3	0	3	1	4	1
92	8	6	6	3	5	9	211	23	2	1	2	8	3	2	1	5	1	8	0
96	5	4	8	3	3	8	32	217	4	0	3	6	0	0	2	4	0	3	0
64	12	3	2	0	3	8	6	4	273	12	1	3	2	1	2	0	0	1	0
41	10	1	3	1	0	3	5	3	52	269	1	1.0	4	3	0	1	1	1	0
72 113	23 39	6 20	11 36	10 17	4	3 7	5 16	4 5	1 9	1 1	202	16 97	2	5 6	0	18 3	1 0	11 0	1 0
113	24	2 U 5	30 7	2	4	14	5	0	12	0	3	12	182	2	3	3	0	4	1
85	19	4	10	5	2	5	4	2	6	1	6	3	4	221	1	4	0	11	1
86	6	2	3	2	2	0	3	1	2	1	1	0	1	2	229	0	3	27	27
77	3	1	9	1	6	2	5	0	3	2	7	6	6	3	6	187	5	23	12
95	3	4	2	1	2	0	6	3	7	1	5	1	1	1	14	10	203	16	1
65	6	1	11	1	0	2	9	1	3	4	8	3	20	10	4	79	3	73	7
94	3	3	2	0	1	1	6	4	0	0	0	0	3	4	55	23	9	2	41



Data 4: KNN 20news5 dim=500, 20news4 dim=100

Report File: Neighbors\_KNN\_20news4\_100\_report.txt Classification Report: precision recall f1-score support 

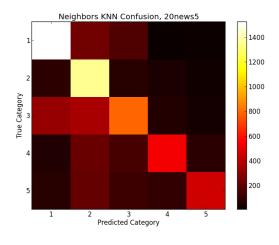
 comp.graphics
 0.86
 0.78
 0.82

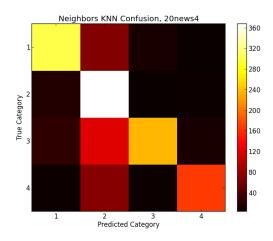
 .religion.misc
 0.59
 0.93
 0.72

 sci.space
 0.92
 0.60
 0.73

 rec.autos
 0.88
 0.67
 0.76

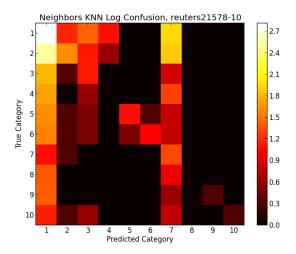
 389 396 talk.religion.misc 394 251 avg / total 0.80 0.75 0.75 1430 Confusion Matrix: 302 70 12 5 18 368 4 6 25 120 237 12 6 71 6 168





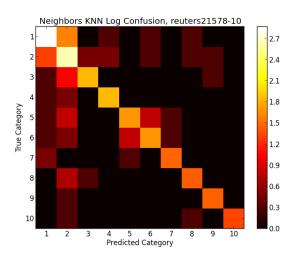
Data 5: KNN Reuters

Repor	rt Fil	le: N	eighb	ors_KN	NN_re	uters	21578-	10_r	eport.txt	; 	 	 	 	 	
Class	sifica		Repo:		~~	2211	f1-sc		a+	_					
			preci	SION	re	Call	II-SC	ore	support	1					
	ea	arn		0.52		0.82	0	.64	789	}					
	ā	acq		0.68	1	80.0	0	.15	472	2					
	cri	ıde	1	0.20	1	0.15	0	.17	82	2					
	tra	ade	1	0.00	1	00.0	0	.00	72	2					
r	money-	-fx	1	0.85	1	0.18		.30	61						
	inter			0.91		0.18		.29	57						
money	y-supp	-		0.09		0.62		.15	32						
		nip		0.00		0.00		.00	32						
		gar		1.00		0.03		.07	29						
	cofi	fee		1.00	1	0.04	0	.08	23	}					
2110	/ tot	+ o 1		0.55		0.45	0	.38	1649	3					
avy	,	Lai		0.33		J. <del>1</del> J	U	. 50	1049						
	usion														
650	14	27	11	0	0	87	0	0	0						
343	40	12	3	0	0	74	0	0	0						
63	1	12	0	0	0	6	0	0	0						
50	0	3	0	0	0	19	0	0	0						
41	1	2	0	11	1	5	0	0	0						
37	1	2	0	2	10	5	0	0	0						
11	1	0	0	0	0	20	0	0	0						
24 25	0	0	0	0	0	8	0	0 1	0						
13	1	3	0	0	0	<i>5</i>	0	0	0 1						



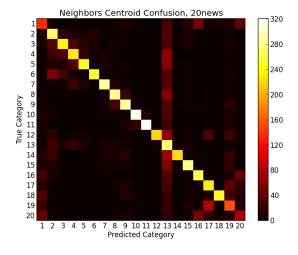
Data 6: KNN Reuters, dim=200

Clas	sific	 atio	n Reno	rt •						
Стаз	SILIC	acioi	preci		re	call	f1-s	core	suppo	rt
	e	arn		0.97		0.95	(	0.96	7	89
		acq		0.87		0.94	(	0.91	4	72
	cr	ude		0.96		0.85	(	0.90		82
	tra	ade		0.96		0.96	(	0.96		72
	money	-fx		0.89		0.80	(	0.84		61
	inter	est		0.87		0.84	(	0.86		57
mone	y-sup	ply		0.94		0.91	(	0.92		32
	s	hip		0.90		0.84	(	0.87		32
		gar		0.93		0.97		0.95		29
	cof	fee		1.00		0.91	(	0.95		23
avg	/ to	tal		0.93		0.93		0.93	16	49
 Conf	usion	Mat	 rix:							
746	40	0	1	0	1	0	1	0	0	
20	445	2	2	0	1	0	1	1	0	
1	10	70	0	0	0	0	0	1	0	
1	2	0	69	0	0	0	0	0	0	
1	5	0	0	49	5	1	0	0	0	
1	2	0	0	5	48	1	0	0	0	
2	0	0	0	1	0	29	0	0	0	
0	4	1	0	0	0	0	27	0	0	
0	1	0	0	0	0	0	0	28	0	
0	1	0	0	0	0	0	1	0	21	



Data 7: Nearest Centroid, 20news

Repo						id_20		report	t.txt							_				
Clas	sific															_				
					pre	cisio	n	recall	L f1	-scor	e s	suppor	:t							
			lt.at			0.3		0.43		0.4		31								
			np.gra	-		0.5		0.70		0.6		38								
	ip.os.					0.6		0.60		0.6		39								
_	.sys.	_				0.6		0.59		0.6		39								
С	omp.s	-				0.7		0.64		0.7		38								
		-	.wind			0.8		0.64		0.7		39								
		m ı	sc.fc			0.8		0.73		0.7		39								
				autos		0.7		0.71		0.7		39								
			notoro	_		0.6		0.72		0.7		39								
		_	t.bas			0.8		0.78		0.8		39								
	r	ec.sp	ort.h	_		0.9		0.80		0.8		39								
				crypt		0.9		0.56		0.7		39								
		sci.e	electr			0.2		0.69		0.3		39								
				i.med		0.9		0.57		0.7		39								
0	c.rel	iaia		space		0.7		0.71		0.7		39 39								
SO			itics			0.6		0.63		0.6		36								
+	alk.p					0.9		0.6		0.0		37								
L	_		itics.			0.9		0.50		0.7		31								
		_	igion.			0.3		0.30		0.3		25								
	cai	N. ICI	.19101			0.5	J	0.5.	_	0.5	_	20	, _							
		a	ıvg /	total		0.7	1	0.64	1	0.6	6	753	32							
																_				
Conf	usion	Matr	ix:																	
137	5	0	0	0	1	0	2	10	3	0	1	30	0	14	53	7	4	9	43	
9	273	20	9	6	14	3	0	6	2	0	0	34	0	9	0	0	0	3	1	
7	33	237	32	14	10	0	3	3	1	0	1	30	1	8	0	1	0	8	5	
1	23	35	230	19	4	8	3	0	0	0	1	63	0	1	0	0	0	3	1	
1	12	9	32	245	1	8	2	3	1	1	0	60	2	3	0	1	0	2	2	
0	55	27	7	3	251	1	2	2	1	0	0	34	0	5	0	0	0	6	1	
1	4	3	24	11	1	286	12	3	1	0	1	36	0	3	1	0	0	3	0	
5	1	1	0	0	0	8	283	24	0	0	0	59	0	4	0	4	0	5	2	
6	0	0	1	0	0	6	30	288	4	0	0	35	2	3	2	5	0	14	2	
8	6	0	0	0	1	4	3	6	311	13	0	32	1	1	0	1	1	8	1	
7	1	0	0	0	0	0	2	8	19	321	0	23	2	2	0	3	0	7	4	
3	18	2	3	5	2	1	1	4	1	0	220	63	1	6	0	32	1	25	8	
3	24	9	22	10	1	8	10	6	2	0	7	273	4	7	1	1	0	3	2	
11	25	0	0	0	0	8	10	14	1	0	0	71	224	4	5	1	1	19	2	
9	10	1	0	1	0	3	4	8	1	1	0	54	2	280	0	2	0	18	0	
28	7	1	0	0	0	2	0	1	0	0	0	32	1	5	265	2	0	10	44	
13	1	0	0	0	1	1	4	12	0	0	2	29	0	3	5	231	2	41	19	
36	2	0	0	0	0	1	0	11	3	0	0	19	1	2	3	9	251	28	10	
21	2	0	0	0	1	0	2	2	2	0	0	21	0	8	3	81	0	156	11	
46	2	1	0	0	0	1	3	7	0	0	0	18	2	5	53	18	5	11	79	



Data 8: Nearest Centroid, 20news5 and 20news4

Report File: Neighbors Centroid 20news5 report.txt Classification Report: precision recall f1-score support 
 computers
 0.88
 0.81
 0.85

 recreation
 0.73
 0.89
 0.80

 science
 0.71
 0.72
 0.71

 politics
 0.78
 0.75
 0.77

 religion
 0.86
 0.68
 0.76
 1955 1590 1579 1050 968 avg / total 0.79 0.78 0.78 7142 Confusion Matrix: 1590 137 208 13 35 1413 81 43 18 7 35 1413 81 43 18 154 172 1141 88 24 4 106 91 792 57 21 112 93 80 662

Report File: Neighbors\_Centroid\_20news4\_report.txt Classification Report: precision recall f1-score support 

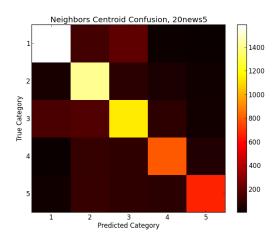
 comp.graphics
 0.92
 0.85
 0.88

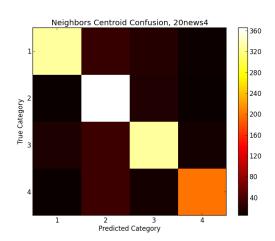
 .religion.misc
 0.79
 0.92
 0.85

 sci.space
 0.86
 0.84
 0.85

 rec.autos
 0.88
 0.79
 0.83

 389 talk.religion.misc 396 394 0.83 251 avg / total 0.86 0.86 0.86 1430 Confusion Matrix: 330 30 21 8 6 366 18 6 17 34 330 13 6 33 13 199





Data 9: Nearest Centroid, Reuters

Repo	rt Fi	le: N	Neighb	ors_Ce	entro	id_re	uters	21578	-10_repo	rt.txt	ĸt		
Clas	sifica	ation	n Repo	 rt:								 	 
			preci	sion	re	call	f1-s	core	suppor	t			
	e:	arn		1.00	(	0.77	(	0.87	78	9			
		acq		0.71				0.83					
		ude			(			0.92	8				
	tra	ade		0.96	(	0.99	(	0.97	7	2			
	money.	-fx		0.87	(	0.89	(	0.88	6	1			
	inter	est		0.87	(	0.79	(	0.83	5	7			
mone	y-sup	ply		0.83	(	0.91	(	0.87	3	2			
	sl	hip			(			0.92		2			
		gar						0.98		9			
	cof	fee		1.00	(	0.96	(	0.98	2	3			
2170	/ to	+ n 1		0.90		0.87	,	0.87	164	۵			
avy	/ [0	Lai		0.90		J . O /	,	5.07	104	,			
	usion												
	174	1	0	0	2	1		0	0				
1			2 1	0 1	0	0		1					
	6	13				0	0		0				
0	0 2	0	71 0	0 54	0 2	3	0	0	0				
0	3	0	0	7	45	2	0	0	0				
0	0	0	0	0	3	29		0	0				
0	4	0	0	0	0	0			0				
0	0	0	0	0	0	0	0	29	0				
0	1	0	0	0	0	0	0	0	22				

