Homework 04 for machine learning

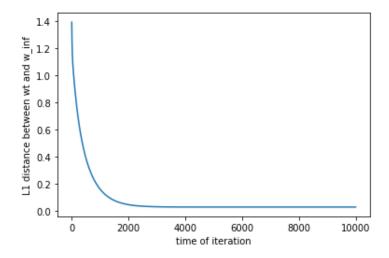
Uni: jg4185

Name: Jiaqing Ge

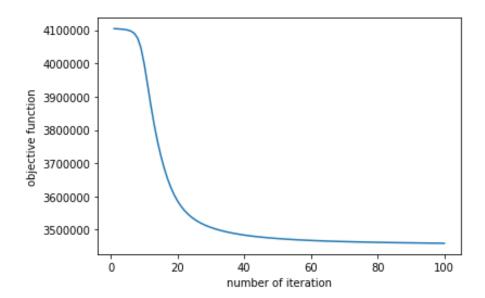
1 (a)

	Team names	Iteration 10		Team names	Iteration 100		Team names	Iteration 1000		Team names	Iteration 10000
466	NorthCentral	0.012812	326	LSU	0.043642	326	LSU	0.084419	326	LSU	0.091366
326	LSU	0.012578	744	Wheaton	0.025822	135	Clemson	0.045527	135	Clemson	0.049262
436	Morningside	0.011511	466	NorthCentral	0.024442	492	OhioState	0.043452	492	OhioState	0.047009
744	Wheaton	0.011088	135	Clemson	0.023704	243	Georgia	0.032720	243	Georgia	0.035382
405	MinnSt-Mankato	0.009633	492	OhioState	0.022688	5	Alabama	0.024679	5	Alabama	0.026695
440	Muhlenberg	0.009507	436	Morningside	0.022621	217	Florida	0.023696	217	Florida	0.025624
492	OhioState	0.009241	243	Georgia	0.017165	501	Oregon	0.019266	501	Oregon	0.020779
679	UW-Whitewater	0.009165	606	StJohnsMN	0.014990	39	Auburn	0.019037	39	Auburn	0.020582
468	NorthDakotaSt	0.009137	726	WestFlorida	0.013367	495	Oklahoma	0.018703	495	Oklahoma	0.020202
135	Clemson	0.008941	5	Alabama	0.012917	510	PennState	0.017974	510	PennState	0.019429
726	WestFlorida	0.008785	679	UW-Whitewater	0.012836	760	Wisconsin	0.015165	760	Wisconsin	0.016392
367	MarianIN	0.008515	217	Florida	0.012440	485	NotreDame	0.014647	485	NotreDame	0.015820
606	StJohnsMN	0.008488	440	Muhlenberg	0.011238	407	Minnesota	0.014201	407	Minnesota	0.015347
438	MountUnion	0.007653	501	Oregon	0.010530	54	Baylor	0.012704	54	Baylor	0.013716
212	FerrisSt	0.007122	39	Auburn	0.010021	393	Michigan	0.012045	393	Michigan	0.013023
252	GrandView	0.007114	495	Oklahoma	0.010012	686	Utah	0.011703	686	Utah	0.012617
243	Georgia	0.007013	405	MinnSt-Mankato	0.009752	385	Memphis	0.011663	385	Memphis	0.012590
374	MaryHardin-Baylor	0.006778	367	MarianIN	0.009583	296	lowa	0.011006	296	lowa	0.011894
340	Lenoir-Rhyne	0.006163	510	PennState	0.009534	26	AppalachianSt	0.010923	26	AppalachianSt	0.011792
575	SlipperyRock	0.006088	690	ValdostaSt	0.008894	637	Texas	0.010187	637	Texas	0.011003
501	Oregon	0.005900	340	Lenoir-Rhyne	0.008070	468	NorthDakotaSt	0.009224	445	Navy	0.009785
175	DelawareValley	0.005840	760	Wisconsin	0.008019	445	Navy	0.009071	468	NorthDakotaSt	0.009717
303	JamesMadison	0.005666	485	NotreDame	0.007866	640	TexasA&M	0.008933	640	TexasA&M	0.009658
690	ValdostaSt	0.005544	407	Minnesota	0.007532	75	BoiseSt	0.008306	75	BoiseSt	0.008943
217	Florida	0.005437	252	GrandView	0.007521	311	KansasSt	0.007334	311	KansasSt	0.007916

(b)



(a)



(b)

	Word Group 0	Word	d Group 1	Word	Group 2		Word	Group 3		Wor	d Group 4
1	percent 0.033491	270 food	d 0.018125 0	company	0.035470	32	member	0.013640	138	mus	ic 0.018331
97	rate 0.020685	144 serve	e 0.009691 170	industry	0.022798	33	president	0.012902	3	pla	y 0.016959
152	rise 0.019447	466 restauran	t 0.009386 36	business	0.016109	259	interview	0.011040	184	fili	n 0.012916
47	price 0.015573	876 fresh	n 0.008782 34	market	0.013989	4	official	0.010667	275	performand	e 0.010835
34	market 0.013931	741 ea	t 0.007899 69	executive	0.013026	198	meeting	0.010403	515	audiend	e 0.010762
93	increase 0.012638	918 taste	0.007818 328	product	0.012445	174	board	0.010192	321	mov	e 0.009947
98	fall 0.011737	1166 dry	y 0.007791 131	sale	0.011496	22	report	0.009526	445	stag	e 0.008329
110	low 0.011624	233 water	r 0.007596 33	president	0.011358	137	decision	0.008999	364	production	n 0.008288
22	report 0.011510	721 pound	d 0.007232 79	sell	0.010852	446	staff	0.008918	523	theate	er 0.008065
316	decline 0.010377	1044 cook	c 0.007092 535	network	0.009483	69	executive	0.008406	55	directo	or 0.007751
	Word Group 5	Word	Group 6	Word	Group 7		Word	Group 8		Word	Group 9
31	thing 0.020527		0.020303 67		0.035504	27	100000000000000000000000000000000000000	0.012973	0	company	•
87	feel 0.013326	49 money		•	0.018467	10		0.012338	79		0.017650
99	lot 0.012032	257 budget			0.018283	122		0.011991	113		0.017333
187	really 0.011848	-	0.013756 169		0.017269	30		0.011218	112		0.016481
42	ask 0.010939		0.013391 558			861	50	0.008517	140		0.016033
222	happen 0.009816		0.013176 405	crime	0.013370	208	34000	0.007755	235		0.013679
68	little 0.009379	13 program	0.011939 4	official	0.012661	893	religious	0.006866	320	financial	0.013651
50	put 0.009361		0.010433 630	victim	0.012361	220	community	0.006568	36	business	0.011825
18	tell 0.009304	182 bill	0.010030 211	death	0.011458	2	state		39	pay	0.011675
181	kind 0.008324	308 benefit	0.009740 35	yesterday	0.011210	493	debate	0.005831	301	firm	0.011097
								= . =		222.000	
	Word Group 10		Group 11	V/12 (10 to 10 to	Group 12		Word				Group 14
265	computer 0.013309		0.022480 171	mrs	0.051137	150	vote		4	official	
74	system 0.011255		0.022116 433	graduate		132	campaign		8	plan	
163	information 0.010177		0.021497 218	father	0.037396	75	political		280	agreement	
427	technology 0.008922		0.020163 324	son	0.032361	120	party		214	agree	
219 865	site 0.007849 internet 0.006882		0.019244 33 0.017211 585	president		216 253	election		353 141	proposal	
367	internet 0.006882 available 0.006859		0.015171 459	retire		319	republican candidate		464	effort	
360	research 0.006274		0.014477 118	daughter receive			democratic			propose negotiation	
776	datum 0.006076		0.014477 118		0.022834		uemocratic		010	negotiation	0.006067
						84	leader	0.012172	136	meet	0.007907
64				degree		84 2	leader state		136 109	meet	
64	number 0.005756		0.013191 55		0.021558	84 2	leader state		136 109	meet	
64		16 home 0			0.021558 d Group 17		state				0.007896
7	Number 0.005756 Word Group 15 city 0.025474	16 home 0 Word G 476 wear 0	0.013191 55 Sroup 16 0.015007 12	director	0.021558 d Group 17 n 0.041867	9	word (0.011072 Group 18 0.029335	109	allow	0.007896 d Group 19 rt 0.022379
7 121	number 0.005756 Word Group 15 city 0.025474 building 0.022242	16 home 0 Word G 476 wear 0 130 room 0	0.013191 55 Group 16 0.015007 12 0.010188 11	Word americal state	0.021558 d Group 17 n 0.041867 s 0.039881	9 58	word school student	0.011072 Group 18 0.029335 0.023802	109 161 332	allow Wor a	0.007896 d Group 19 rt 0.022379 st 0.012376
7 121 330	number 0.005756 Word Group 15 city 0.025474 building 0.022242 resident 0.015745	Word G 476 wear 130 room 799 dress	0.013191 55 Froup 16 0.015007 12 0.010188 11 0.009158 24	word word americal state countr	0.021558 d Group 17 n 0.041867 s 0.039881 y 0.037728	9 58 100	word of school student drug	0.011072 Group 18 0.029335 0.023802 0.015054	109 161 332 578	allow Wor a arti	0.007896 d Group 19 rt 0.022379 st 0.012376 m 0.009440
7 121 330 102	Number 0.005756 Word Group 15 city 0.025474 building 0.022242 resident 0.015745 area 0.015653	Word G 476 wear 0 130 room 0 799 dress 0 212 store 0	0.013191 55 6roup 16 0.015007 12 0.010188 11 0.009158 24 0.008847 45	work work work work	0.021558 d Group 17 n 0.041867 s 0.039881 y 0.037728 d 0.023404	9 58 100 352	word of school student drug doctor	0.011072 Group 18 0.029335 0.023802 0.015054 0.014272	109 161 332 578 649	Wor a arti- museur collectio	0.007896 d Group 19 rt 0.022379 st 0.012376 m 0.009440 n 0.008589
7 121 330 102 149	word Group 15 city 0.025474 building 0.022242 resident 0.015745 area 0.015653 build 0.015431	Word G 476 wear 130 room 799 dress 212 store 732 shop	0.013191 55 6roup 16 0.015007 12 0.010188 11 0.009158 24 0.008847 45 0.007313 465	work work work state countr work foreig	0.021558 d Group 17 n 0.041867 s 0.039881 y 0.037728 d 0.023404 n 0.014298	9 58 100 352 20	state Word of school student drug doctor child	Group 18 0.029335 0.029802 0.015054 0.014272 0.014158	109 161 332 578 649 760	allow Wor a arti- museur collectic exhibitio	0.007896 d Group 19 rt 0.022379 st 0.012376 m 0.009440 n 0.008589 n 0.008167
7 121 330 102 149 220	word Group 15 city 0.025474 building 0.022242 resident 0.015745 area 0.015653 build 0.015431 community 0.011946	Word G 476 wear 130 room 799 dress 212 store 732 shop 697 blue	0.013191 55 6roup 16 0.015007 12 0.010188 11 0.009158 24 0.008847 45 0.007313 465 0.007009 430	Word americal state countr work foreig	0.021558 d Group 17 n 0.041867 s 0.039881 y 0.037728 d 0.023404 n 0.014298 d 0.012790	9 58 100 352 20	word of school student drug doctor child study	Group 18 0.029335 0.023802 0.015054 0.014272 0.014158 0.013562	109 161 332 578 649 760 817	allow Wor a arti museur collectic exhibitic photograp	d Group 19 rt 0.022379 st 0.012376 m 0.009440 n 0.008589 n 0.008167 h 0.008054
7 121 330 102 149 220 82	word croup 15 city 0.025474 building 0.022242 resident 0.015745 area 0.015653 build 0.015431 community 0.011946 house 0.01304	Word G 476 wear 130 room 799 dress 212 store 732 shop 697 blue 208 white	0.013191 55 6roup 16 20.015007 12 20.010188 11 24 25 24 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	director Worn americal state countr worl foreig international	0.021558 d Group 17 0.041867 0.039881 y 0.037728 d 0.023404 0.014298 d 0.012790 d 0.012590	9 58 100 352 20 139	state Word school student drug doctor child study program	Group 18 0.029335 0.023802 0.015054 0.014272 0.014158 0.013562 0.012978	109 161 332 578 649 760 817 262	allow Wor a arti museur collectic exhibitic photograp desig	d Group 19 rt 0.022379 st 0.012376 m 0.009440 n 0.008589 n 0.008054 n 0.008054
7 121 330 102 149 220 82 200	word croup 15 city 0.025474 building 0.02242 resident 0.015745 area 0.015653 build 0.015431 community 0.011946 house 0.011304 project 0.0101616	Word G 476 wear 130 room 799 dress 212 store 732 shop 697 blue 208 white 693 table	0.013191 55 3roup 16 20.015007 12 20.010188 11 24 25 24 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	Worn america state countr worh foreig internationa governmer american	0.021558 d Group 17 0.041867 0.039881 y 0.037728 d 0.023404 n 0.014298 d 0.012790 t 0.012590 s 0.011403	9 58 100 352 20 139 13	state Word of school student drug doctor child study program health	Group 18 0.029335 0.023802 0.015054 0.014272 0.014158 0.013562 0.012978 0.012258	109 161 332 578 649 760 817 262 462	allow Wor a arti museur collectic exhibitic photograp desig	d Group 19 rt 0.022379 st 0.012376 m 0.009440 n 0.008589 n 0.008054 n 0.007970 e 0.007348
7 121 330 102 149 220 82 200 444	number 0.05756 Word Croup 15 city 0.025474 building 0.02242 resident 0.01543 area 0.015633 build 0.015431 community 0.011946 house 0.011304 project 0.010516 neighborhood 0.009930	Word G 476 wear 0 130 room 0 799 dress 0 212 store 0 732 shop 0 697 blue 0 208 white 0 693 table 0 112 buy 0	0.013191 55 3roup 16 0.015007 12 0.010188 11 0.009158 24 0.008847 45 0.007313 465 0.007009 430 0.006833 15 0.006820 337 0.006709 668	Worn america state countr worl foreig internationa governmer american europea	0.021558 d Group 17 0.041867 0.039881 y 0.037728 d 0.023404 n 0.014298 d 0.012790 t 0.012590 s 0.011403 n 0.010704	9 58 100 352 20 139 13 202 389	state Word of school student drug doctor child study program health patient	Group 18 0.029335 0.023802 0.015054 0.014272 0.014158 0.013562 0.012978 0.012258 0.011555	109 161 332 578 649 760 817 262 462 744	allow Wor a arti museur collectio exhibitio photograp desig imag paintin	d Group 19 rt 0.022379 st 0.012376 m 0.009440 n 0.008589 n 0.008167 h 0.008054 n 0.007970 e 0.007348 g 0.006913
7 121 330 102 149 220 82 200	word croup 15 city 0.025474 building 0.02242 resident 0.015745 area 0.015653 build 0.015431 community 0.011946 house 0.011304 project 0.0101616	Word G 476 wear 130 room 799 dress 212 store 732 shop 697 blue 208 white 693 table	0.013191 55 3roup 16 0.015007 12 0.010188 11 0.009158 24 0.008847 45 0.007313 465 0.007009 430 0.006833 15 0.006820 337 0.006709 668	Worn america state countr worh foreig internationa governmer american	0.021558 d Group 17 0.041867 0.039881 y 0.037728 d 0.023404 n 0.014298 d 0.012790 t 0.012590 s 0.011403 n 0.010704	9 58 100 352 20 139 13 202 389	state Word of school student drug doctor child study program health patient	Group 18 0.029335 0.023802 0.015054 0.014272 0.014158 0.013562 0.012978 0.012258	109 161 332 578 649 760 817 262 462	allow Wor a arti museur collectic exhibitic photograp desig	d Group 19 rt 0.022379 st 0.012376 m 0.009440 n 0.008589 n 0.008167 h 0.008054 n 0.007970 e 0.007348 g 0.006913
7 121 330 102 149 220 82 200 444	number 0.05756 Word Croup 15 city 0.025474 building 0.02242 resident 0.01543 area 0.015633 build 0.015431 community 0.011946 house 0.011304 project 0.010516 neighborhood 0.009930	Word G 476 wear 0 130 room 0 799 dress 0 212 store 0 732 shop 0 697 blue 0 208 white 0 693 table 0 112 buy 0 852 fashion 0	0.013191 55 3roup 16 0.015007 12 0.010188 11 0.009158 24 0.008847 45 0.007313 465 0.007009 430 0.006833 15 0.006820 337 0.006709 668	Worn america state countr worl foreig internationa governmer american europea	0.021558 d Group 17 0.041867 0.039881 y 0.037728 d 0.023404 0.014298 d 0.012790 d 0.012590 s 0.011403 0 0.010704 0 0.009864	9 58 100 352 20 139 13 202 389	state Word of school student drug doctor child study program health patient	Group 18 0.029335 0.029302 0.015054 0.014272 0.014158 0.013562 0.012978 0.012258 0.011555 0.011348	109 161 332 578 649 760 817 262 462 744 1070	allow Wor a arti museur collectio exhibitio photograp desig imag paintin	d Group 19 rt 0.022379 st 0.012376 m 0.009440 n 0.008589 n 0.008567 h 0.008054 n 0.007970 e 0.007348 g 0.006913
7 121 330 102 149 220 82 200 444	number 0.05756 Word Group 15 city 0.025474 building 0.02242 resident 0.015653 build 0.01563 build 0.015431 community 0.011946 house 0.011304 project 0.010516 neighborhood 0.009830 site 0.009843	Word G 476 wear 0 130 room 0 799 dress 0 212 store 0 732 shop 0 697 blue 0 208 white 0 693 table 0 112 buy 0 852 fashion 0	0.013191 55 Sroup 16 0.015007 12 0.010188 11 0.009158 24 0.000847 45 0.007313 465 0.007009 430 0.006833 15 0.006820 337 0.006709 668 0.006676 196 d Group 21	Worn america state countr work foreig internations governmer american europea natio	0.021558 d Group 17 n 0.041867 s 0.039881 y 0.037728 d 0.023404 n 0.014298 al 0.012790 at 0.012590 s 0.011403 n 0.010704 n 0.009864 d Group 22	9 58 100 352 20 139 13 202 389	state Word of school student drug doctor child study program health patient medical Word G	Group 18 0.029335 0.029302 0.015054 0.014272 0.014158 0.013562 0.012978 0.012258 0.011555 0.011348	109 161 332 578 649 760 817 262 462 744 1070	allow Word a arti museun collection exhibition photograp desig imag paintin gallet	d Group 19 rt 0.022379 st 0.012376 m 0.009440 n 0.008589 n 0.008567 h 0.008054 n 0.007970 e 0.007348 g 0.006913
7 121 330 102 149 220 82 200 444 219	number 0.05756	Word G 476 wear 130 room 799 dress 212 store 697 blue 208 white 693 table 112 buy 852 fashion Word	0.013191 55 Sroup 16 0.015007 12 0.010188 11 0.009158 24 0.000847 45 0.007313 465 0.007009 430 0.006833 15 0.006820 337 0.006709 668 0.006676 196 d Group 21 arr 0.020003 17	Worn america state countr work foreig internationa governmer american europea natio Wor	0.021558 d Group 17	9 58 100 352 20 139 13 202 389 539	state Word of school student drug doctor child study program health patient medical Word G game 0	Group 18 0.029335 0.029302 0.015054 0.014272 0.014158 0.013562 0.012978 0.012258 0.011255 0.011348 Group 23	109 161 332 578 649 760 817 262 462 744 1070	allow Word arti museun collectic exhibitic photograp desig imag paintin galler Word Gre mile 0.00	d Group 19 rt 0.022379 st 0.012376 m 0.009440 n 0.008589 n 0.008167 h 0.007970 e 0.007348 g 0.006913 y 0.006126
7 121 330 102 149 220 82 200 444 219	number 0.05756	Word G 476 wear 0 130 room 0 799 dress 0 212 store 0 697 blue 0 693 table 0 112 buy 0 852 fashion 0 153 wa 188 militar 63 force	0.013191 55 Sroup 16 0.015007 12 0.010188 11 0.009158 24 0.000847 45 0.007313 465 0.007009 430 0.006833 15 0.006820 337 0.006709 668 0.006676 196 d Group 21 r 0.020003 17 y 0.019683 162 e 0.013844 126	Worn american governmer american europea natio Wor	0.021558 d Group 17 0.041867 0.039881 y 0.037728 d 0.023404 n 0.014298 d 0.012790 d 0.012790 d 0.011403 n 0.010704 n 0.009864 d Group 22 e 0.023738 or 0.020375	9 58 100 352 20 139 13 202 389 539	word of school student drug doctor child study program health patient medical word game 0 team 0 play 0	Group 18 0.029335 0.029302 0.015054 0.014272 0.014158 0.013562 0.012978 0.012258 0.011555 0.011348 Group 23 0.023620 0.019423 0.018669	109 161 332 578 649 760 817 262 462 744 1070	allow Word a arti museuu collectic exhibitic photograp desig imag paintin gallei Word Gro water 0.00	d Group 19 rt 0.022379 st 0.012376 m 0.009440 n 0.008589 n 0.008167 h 0.007970 e 0.007348 g 0.006913 y 0.006126
7 121 330 102 149 220 82 200 444 219	number 0.05756 Word 7 cross 15 city 0.025474 building 0.02242 residential 0.015745 area 0.015653 build 0.015431 committy 0.015431 committy 0.011946 house 0.01304 project 0.009930 site 0.009843 Word Group 20 book 0.024594 write 0.025721	Word G 476 wear 0 130 room 0 799 dress 0 212 store 0 697 blue 0 693 table 0 112 buy 0 852 fashion 0 153 wa 188 militar	0.013191 55 Sroup 16 0.015007 12 0.010188 11 0.009158 24 0.00847 45 0.007313 465 0.007009 430 0.006833 15 0.006820 337 0.006709 668 0.006676 196 d Group 21 ar 0.020003 17 y 0.019683 162 e 0.013844 126	director Worn america state countr worl foreigi internationa governmer american europea natio Worn cas lawyes	0.021558 d Group 17	9 58 100 352 20 139 13 202 389 539	word of school student drug doctor child study program health patient medical word game 0 team 0 play 0	Group 18 0.029335 0.029302 0.015054 0.014272 0.014158 0.013562 0.012978 0.01258 0.011555 0.011348 Group 23 0.023620 0.019423	109 161 332 578 649 760 817 262 462 744 1070 355 233	allow Word Growater 0.00	d Group 19 rt 0.022379 st 0.012376 m 0.009440 n 0.008589 n 0.008167 h 0.008054 n 0.007970 e 0.007348 g 0.006913 yy 0.006126
7 121 330 102 149 220 82 200 444 219	number 0.05756 Vor of coup 15	Word G 476 wear 0 130 room 0 799 dress 0 212 store 0 697 blue 0 208 white 0 693 table 0 112 buy 0 852 fashion 0 Word 153 wa 188 militar 63 force 190 attacl 15 government	0.013191 55 Sroup 16 0.015007 12 0.015007 12 0.010188 11 0.009158 24 0.008847 45 0.007313 465 0.007009 430 0.006833 15 0.006820 337 0.006709 668 0.006676 196 d Group 21 ar 0.020003 17 y 0.019683 162 e 0.013844 126 k 0.012084 48 art 0.011270 88	director Worn america state countr worl foreig internationa governmer american europea natio Worn cas lawye cou	0.021558 d Group 17 0.041867 0.039881 g 0.037728 d 0.023404 n 0.014298 d 0.012790 d 0.012590 s 0.011403 n 0.010704 n 0.009864 d Group 22 e 0.023738 o 0.02375 d 0.019982	9 58 100 352 20 139 13 1 202 389 539 5 28 3 40	state Word of school student drug doctor child study program health patient medical Word G game 0 team 0 play 0 player	Group 18 0.029335 0.029802 0.015054 0.014272 0.014158 0.013562 0.012978 0.012258 0.011555 0.011348 Group 23 0.023620 0.019423 0.018669 0.015947 0.015438	109 161 332 578 649 760 817 262 462 744 1070 355 233 418	word Grundler of travel of the content of the conte	d Group 19 rt 0.022379 st 0.012376 m 0.009440 n 0.008589 n 0.008167 h 0.008054 n 0.007970 e 0.007348 g 0.006913 ry 0.006126 rup 24 rup 24 rup 24 rup 24 rup 24 rup 24 rup 25 rup 26 rup 27 rup 27 rup 28 rup 28 rup 28 rup 28 rup 29 rup
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