Lab 3 GSI

Name of studen	t *					
Mengling Liu						
Readability of re	port (5 p	oints) *				
	1	2	3	4	5	
Narrative unclear and/or difficult to read and/or there is not much detail in the explanations			0	0	0	Narrative very clear and/or easy to read and lots of detail is given
Grammar of repo	ort (5 po	ints) *				
	1	2	3	4	5	
Incorrect of written grammar pervasive	0	0	0	•	0	Excellent written grammar
Level of written or runtime *	detail on	comparis	on of R	and C++	impleme	ntation and
	0	1		2	3	
Did not write about a comparison of the R and C++ implementation					•	Wrote a detailed comparison between the R and C++ implementations

Incorrect

implementations

R/C++ (3 points) *					
	0	1	2	3	

Correctly coded the parallelization of k-means and pairwise similarity in

Comments on implementation of parallelization or the similarity measure

I am not sure exactly what the issue is, but your similarity scores are not correct in the Ben-Hur figures, so there is something wrong with the code

Efficiency and practicality of R and C++ (3 points) *

	0	1	2	3	
Inefficient (e.g. repeated computations,	0	\circ		0	Very efficient and practical
unnecessarily saved objects,					
etc.)					

Suggestions for improving efficiency of R and/or C++ code *

The computation of the ECDF can be done much more efficiently without for loops, but looks good other than that.

In general in R if you are using lots of for loops think about whether there is another way to do it

Seems correct to

me

Does the author s points)	atisfy the fol	llowing code read	dability requi	rements? (3		
Always spacing b		variable assignment	and addition sy	mbols (" = ", " + ")		
No line of code ex	ceeds 80 chara	acters				
Consistent variab	le naming for al	l variables (words alv	ways separated	by one of "_" or "."		
Clarity of variable	names (2 po	oints) *				
	0	1	2			
Variable names are unclear and meaningless (e,g, 'df', 'x', 'data2)'	0	0		Variable names are helpful and unambiguous		
Quality of code co	omments (2	points) *				
	0	1	2			
There are almost no comments	0			The comments explain clearly what is being done and why		
Suggestion for im	proving read	lability of R code	*			
Keep your code lines l	ess than 80 cha	racters and add spac	cing around +, =	, after commas etc.		
Did the student provide all code necessary for recompiling their results AND report (note: report not actually reproduced) (2 points) *						
	0	1	2			
Incomplete code or no .Rnw/.Rmd file provided	0	0	•	Everything was provided		

Clarity of folder s	tructure (2	points) *						
	0	1		2				
Many excess files not relevant to report	0			0	The purpose of each file is clear and there are no excess files in the lab2 folder			
Comments on fo	lder structi	ure						
Remember, not to upl		_	_	nt subfolder	s rather than just			
Correctly produce	Correctly produce Ben-Hur type figures (3 points) *							
	0	1	2	3				
Did not provide a figure like Ben- Hur	0	•	0	0	Figures look correct			
Discuss one (or more things) that you liked about the author's figure *								
Good job using a seq	uential color	scheme for the	ECDF					
Discuss one (or more things) that could be improved the author's figure *								
For comparing histog misleading	rams make s	ure to have the	x-scale be the	e same, oth	erwise it can be			
Also, your similarity scores do not appear to be correct. For example, with K = 3 you should get values between 0.9 and 1								

Justification of cor	iclusions drawn	from Ben-Hur figures	(3 points)	*
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0 1 2 3	
Did not write about any conclusions drawn from the figures	Clearly outlines interpretation of the figures and drew reasonable conclusions (e.g. found k = 3, or some other value, is the best and provides reasons why)

Comments on the conclusions and interpretations of the Ben-Hur type figures *

It would be good to add more detail about why you make these decisions. What does it mean for the similarity score to be high? To have low variance?

Things the author did well *

Good job discussing the R and C++ code!

Things the author could improve on *

Make sure to have an introduction and transition sentences that tie the pieces of the report together, rather than just separate bullet points.

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