Lab 2 GSI grading

This form contains the final scores and extra comments from the GSI.

The respondent's email address (rebeccabarter@berkeley.edu) was recorded on submission of this form.

Name of student	t						
Alexander Brandt							
The student ID of the student whose paper you are grading *							
24092167							
Readability of report (5 points) *							
	1	2	3	4	5		
Narrative unclear and/or difficult to read	0	0	0	0		Narrative very clear and/or easy to read	
Grammar of report (5 points) *							
	1	2	3	4	5		
Incorrect written grammar pervasive	0	0	0	0	•	Excellent written grammar	

Analysis: redwood trees

In this section you will assess the actual analysis using kernel density estimation and loess on the redwood trees data.

Detail of kernel	density estimation	analysis ((3 points)	*

	0	1	2	3	
Did not explore different bandwidths or kernels					Explored a variety of bandwidths and kernels and clearly related these to the bias
					variance-tradeoff

Relevance and quality of figures related to kernel density estimation (3 points) *

	0	1	2	3	
Did not provide any figures	0	0	0		Provided clear, relevant and visually appealing figures

Discuss one (or more) things that you liked about the author's kernel density estimation figures

Discuss one (or more) things that could be improved for the author's kernel density estimation figures

Try to use colors of similar intensity. For example, the yellow lines are hard to see relative to the blue and purple lines. The default colors in R ("yellow", "blue", "red", etc, aren't so great in my opinion)

Transparency would also help with overplotting of the lines (currently the lines on top have visual preference over the ones hidden beneath)

Did not conduct an analysis using a loess smoother Relevance and quality of 0 Did not provide any figures Discuss one (or more) the	1	2	3	Explored a variety of bandwidths and polynomials and
an analysis using a loess smoother Relevance and quality of Did not provide any figures			0	variety of bandwidths and
Did not provide any figures				clearly related these to the bias- variance-tradeoff
Did not provide any figures	figures relat	ed to loess s	smoothing	(3 points) *
any figures	1	2	3	
Discuss one (or more) th			0	Provided clear, relevant and visually appealing figures
	nings that you	u liked about	the autho	r's loess figures
Discuss one (or more) th	ings that co	uld be impro	ved for the	e author's loess
see comments from your peer	reviewers			

Analysis: linguistic survey

Level of detail in	the writte	n compariso	on betwee	en two quest	tions (3 points) *
	1	2	2	3	
Little detail (barely described the relationships between the two questions)					Very detailed (described clearly the geographical groups formed by each question and discussed how the questions were related to one another)
Optional comme	nts about	author's an	alysis of t	he two ques	stions
Nice job using Crame	er's V statisti	c to compare t	he question	IS.	
Quality and releva		, ,	. ,	·	stions (3 points)
	0	1	2	3	
Did not provide figures	0			0	Provided clear, informative, and visually appealing figures
Discuss one (or r	more) thin	gs that you	liked abo	ut the autho	r's figure(s)

Discuss one (or more) things that could have been improved for the author's figure(s)

Captions and labels would be helpful!

For the big heatmap on page 4, I would probably chose a subset of the questions and code them as a keyword rather than "Q99" to aid interpretability of the figure.

For the smaller heatmap on page 5, it would have been more informative to have the row and column names as the actual answers.

It's not clear what the maps on page 5 are showing... what does "those finding question 54" mean? A caption and better headings would help.

I'm not sure about the color choices for the map on page 8.... the yellow is jarring and the color for pop is hard to see... (it looks like an overlap between soda and coke)

Discovered that the binary encoding should be aggregated (e.g. in lat-long bins) in order to perform meaningful PCA (or other dimensionality reduction technique) (2 points) *

	0	1	2	
Did not mention that dimensionality reduction did not work well on the binary encoded data				Found that PCA was inneffective for binary encoding and used aggregated data instead (e.g grouped by ZIP or lat/long bins)
				, , ,

Discussed clustering and related these clustering results to geography (3
points) (note: deduct a point if the author used lat/long as a variable in their
cluster algorithm) *

oractor argoritanis	•/				
	0	1	2	3	
Did not discuss clustering					Discussed in detail the clusters found in the data and how they related to geography
Optional comme	nts on clu	ster analysi	S		
In the plot on page 8,	I don't know	v what the y-axi	s means		
Quality and releven points) *	ance of fig	gures related	d to clusteri	ing and ge	ography (3
	0	1	2	3	
No figures provided					Provided clear, informative, and visually appealing figures
Discuss one (or r	more) thin	ngs you liked	about the	author's cl	ustering figures

Discuss one (or more) things that could be improved for the author's clustering figures

In the plots at the top of page 9, there is a lot of overplotting going on... I can't see at all where the first cluster lies in the second panel.

Try to use meaningful legend names (i.e. "cluster" instead of "factor(my_clus3)").

Analyzed the robustness/stability of a finding (3 points) (give partial points if the author showed stability only by re-running K-means without perturbing the data) *

	0	1	2	3			
Did not study robustness					Tested in detail the robustness of their finding (e.g. using repeated data perturbations, subsamples, or bootstrapped samples)		
Bonus point for a particularly cool visualization (i.e. not just scatter points on a map) (1 bonus point)							
The author made a really creative map!							
Bonus point for a particularly cool analysis (i.e. answering a question of the data not required by the lab) (1 bonus point)							
☐ The author pe	erformed a really	creative ana	lysis!				

Reproducibility

In this section you will assess the reproducibility of the your peer's report. Be sure to take note of any extra README files that explain any extra steps you might need to take to recompile the report. If they have saved their figures in a separate folder, check to see whether there is a script that will automatically produce AND SAVE their figures. If not, take a point off for reproducibility.

Several people will have saved a large file (probably geocoded locations) and used this file in analysis. This is fine if they also provided clear instructions concerning how the reviewer could reproduce this file in an automated way (e.g. by running an R script or calling a function). If they rely on such a file but do not provide

instructions about how one could reproduce this file	, then take a point off	for reproducibility.	You do not need to
actually regenerate this file.			

Reproducibility o	of report (4	1 points) *						
	1	2	3	4				
Could not recompile the report					Could recompile the report and figures without manual effort and got the same output as provided in the original pdf			
If you could not recompile the report, or got different output, explain what went wrong								
Readability of code (4 points) - be sure to look at any files in the R/ folder *								
	1	2	3	4				
Code very difficult to read with little documentation				0	Code easy to read with clear documentation			
Suggestions to improve code (either provide specific examples or general comments)								

Clarity of folder st	ructure (2 p	oints) *		
	0	1	2	
Many excess files not relevant to the report				The purpose of each file is clear and there are no excess files in the lab2 folder
Optional suggestic	ons for imp	roving folder struc	ture	
Concluding remar		ral feedback to the author	·.	
One or more thing	s that you li	ked about the rep	ort overall	
One or more thing	s that could	l be improved upo	n 	
Any other comme	nts that you	would like to add	?	

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10/23/2017

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