Lab 2 GSI 10/18/2018

## Lab 2 GSI

Name of studen	t *					
Mengling Liu						
Student ID *						
3033122406						
Readability of re	port (5 p	ooints) *				
	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

Detail of kernel d	ensity est	imation ana	ılysis (3 poiı	nts) *	
	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 q	uality of fi	gures relate	d to kernel (	density es	timation *
	0	1	2	3	
Did not provide any figures					Provided clear, relevant, and visually appealing figures
Comments on w	hat you lik	ed about th	e author's k	ernel dens	sity estimation
I like how you labeled	l each plot				
Comments on w		be improved	d in the auth	ıor's kerne	l density
estimation figure	:o				

If you are combining so many plots into a single figure to avoid clutter include less tick marks on your y-axis

Detail of loess sn	noothing	analysis (3 p	ooints) *		
	0	1	2	3	
Did not conduct an analysis using a loess smoother	0			0	Explored a variety of bandwidths and polynomials and clearly related these to the bias- variance tradeoff
Relevance and qu	uality of fi	gures relate	d to loess s	smoothing	(3 points) *
	0	1	2	3	
Did not provide any figures	0	0	•	0	Provided clear, relevant, and visually appealing figures
Comments on wh	nat you lik	ed about the	e author's l	oess figure	s *
Good job not just usir	ng the defau	ılt theme!			
Comments on wh		•			
Use transparency, and	i illaybe a ll	the color point	as the empha	1515 15 011 1110 1	i end iine.

Level of detail in	the written	compariso	n between	two quest	ions (3 points) *
	1	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)
Comments on au	ıthors anal	ysis of the t	wo questi	ons	
Quality and relev	ance of fig	ures (e.g. m	naps) for th	ne two ques	stions (3 points)
	0	1	2	3	
Did not provide figures	0			0	Provided clear, informative, and visually appealing figures
Comments on w	hat you like	ed about the	e figure(s)	<b>*</b>	
I like that your legend has the actually answers to the questions					
Comments on w	hat could b	e improved	in the autl	nor's figure	(s) *
Because there are so different color schemotistinctly than others	ne would have	been good be	ecause some	of these colo	r stick out more

in order to perform	n meaningful	•	33 3	,
technique) (2 poir	nts) *			
	0	1	2	
Did not mention		$\bigcirc$		Found that PCA

that was ineffective dimensionality for binary encoding and reduction did not work well on the used aggregated binary encoded data instead data

Discussed clustering and related these clustering result to geography (3 points) NOTE: point subtracted if lat-long values included in cluster algorithm \*

	0	1	2	3	
Did not discuss clustering					Discussed in the detail the clusters found in the data and how they relate to geography and thought carefully
					•
					about number of
					clusters

Comments on clustering analysis

Quality and releve points) *	ance of fig	gures relate	ed to clusteri	ing and ge	eography (3
	0	1	2	3	
Did not provide figures	0	0		0	Provided clear, informative, and visually appealing figures
Comments on w geography *	hat you lik	red about th	ne figure(s) r	elated to	clustering and
Good choice of poin	t size				
Again, use transpare	·	on all your fig	ures		
Analyzed the rob if the author sho the data *		•	• .	•	TE: partial point thout perturbing
Did not study robustness			•		Tested in detail the robustness of their findings (e.e. using repeated data perturbations, subsamples, or bootstrapped

samples)

on a map) (1 poi	•	riy cool visu	ialization (i.	e. not just	scatter points
THe author mad	le a really cre	ative map			
Bonus point for a	-		lysis (i.e. ar	nswering a	question of the
The author perfe	ormed a crea	tive analysis			
Reproducibility of	of report (4	points) *			
	1	2	3	4	
Could not recompile					Could recompile the report and figures without manual effort and got the same output
If you could not	compile, o	r got differe	nt output, e	xplain wha	at went wrong
The data would not I	oad				
Readability of co	ode (4 poin	ts) *			
	1	2	3	4	
Code very difficult to read with little documentation					Code easy to read with clear documentation
Comments on co	ode				
A lot your lines go ov	ver 80 charac	ters			

Clarity of folder s	tructure (2 pc	oints) *		
	0	1	2	
Many excess files not relevant to report				The purpose of each file is clear and there are no excess files in the lab2 folder

## Comments on what the author did well

Your analysis of PCA was very thorough!

## Comments on what the author could improve

Make sure to give more detailed explanations of what you do. That will help me give you more points, because if you do not explain it I do not know why you made the decisions.

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