Evaluation Form of Feature Importance and Dependencies

Hi participant, our research is focussed on presenting feature importance and dependencies in a coherent and useful manner. The visualisation that you have just seen presents data gathered from a Breast Cancer Dataset with features that are used to predict whether the cancer is benign or malignant. If you would like to learn more about the data, this can be done here: https://www.kaggle.com/uciml/breast-cancer-wisconsin-data

This purpose of this survey is to better understand your experience with our visualisation and to judge whether the data was presented in a clear and coherent manner.

By filling out this questionnaire, you consent to your data being used for research purposes.

If you have questions, you can contact: $\underline{r.kapoor@student.utwente.nl}$

* Required

Questions about the visualisation

Please answer these questions whilst interacting with the visualisation.

- What is the relative feature importance of "concave points_mean" by only excluding "area_worst" but including all other variables? (answer should be a number) *
 Which feature combination leads to the lowest importance of "concave points_mean"?
- 3. What is the consequence of not including "perimeter_worst" but including "radius_worst" on "area_worst"?

4.	Which feature I	has the h	nighest	deper	ndencie	es on o	ther fe	atures	?			
5.	What is the dependency scorebetween concave_points_worst and radius_worst? (answer should be a number) *											
	ask omplexity	The foll section		estions	will addr	ess how	challeng	ing the ta	asks in the previous	S		
6.	I found the task		ılt to co	omplet	:e *							
		1	2	3	4	5	6	7				
	Strongly disagre	е							Strongly agree			
7.	Comments											
8.	I understood ho		isualist	ion wo	orks *							
		1	2	3	4	5	6	7				
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Comments	
The animations were useful in emphasising the particular features relations to each other. *	ach
Mark only one oval.	
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Strongly disagree Strongly agree	
Comments	
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The visualisation is useful. *	
Mark only one oval.	
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Learnability

The following 4 questions will address the learnability and intuitiveness of the visualisation.

22.	I was able to gain the visualisation.		nsights	about	: how fo	eatures	s are re	lated t	o each other with	
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23.	Comments									
24.	The visualisation	was ea	asy to u	ıse. *						
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Strongly agree

Strongly disagree

The visualisatio	n was in	tuitive.	*					
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	The design of the visualisation is attractive. *
	Mark only one oval.
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	Visualising Importance and Dependencies in this way represents the data mo
	clearly than the "traditional methods". *
(clearly than the "traditional methods". *
(clearly than the "traditional methods". * Mark only one oval.
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37.	Comments
38.	Did you like anything in particular about the visualisation? And if so, what?
39.	What was difficult about this visualisation?
40.	Do you have any comments on how to improve the visualisation?

41.	. Thank you for your participation!!									
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