Data Ethics Canvas

Title	Description	Daily Photo	Digital Usage	Daily Diary
1. Data sources	Name and describe key data sources used in your project, whether you're collecting them yourself or getting access from third parties.	Source: DSI Dozen group, MDSI at UTS Tracking process: UTS Google Drive, MMFashion: https://github.com/open-mmlab/mmfashion NRC Lexicon: https://search.r-project.org/CRAN/refmans/textdata/html/lexicon_nrc_vad.html	Source: DSI Dozen group, MDSI at UTS Tracking process: UTS Google Drive, RescueTime: https://www.rescuetime.com/ From mobile phone and computer browser	Source: MDSI at UTS Tracking process: Manual entries (written by myself), LeXmo: https://github.com/dinbav/LeXmo , For converting words into emotions
2. Limitations in your data sources	Are there any limitations that might influence the outcomes of your project? Consider: ● bias in data collection, inclusion, algorithm ● gaps, omissions ● other sensitivities such as data categorisation	Omission risk: Manual entries Human error risk	Incomplete measurement risks, Data being biased from MDSI students	Human error risk Omission risk: Manual entries

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3. Sharing data with other organisations	Which people/organisations can see your data? (e.g. collection/storage apps, MDSI people, analysis tools you use, etc.)	MDSI group members, access to UTS Google Drive	MDSI group members, access to UTS Google Drive. Tracking app (RescueTime) stored data as well.	Has not been shared.
	Under what conditions?	Conditions: any data records must not be shared with any third party in any case.	Conditions: any data records must not be shared with any third party in any case.	N/A
4. Relevant legislation and policies	What legislation or policies shape your use of this data? Consider data protection legislation, IP and database rights legislation, anti-discrimination laws, sector-specific data sharing policies/regulation (eg health, employment, taxation), sector-specific ethics legislation	NRC Lexicon: https://saifmohammad.com/WebPages/NRC-Emotion-Lexicon.htm#:~:text=The%20NRC%20Emotion%20Lexicon%20is,sentiments%20(negative%20and%20positive). Australian Privacy Act: https://www.o	RescueTime: https://www.rescuetime.com/tos Australian Privacy Act: https://www.oaic.gov.au/privacy/the-privacy-act/ Storage and sharing: https://support.google.com/dr	Australian Privacy Act: https://www.oaic.gov.au/privacy/the-privacy-act/

Commented [1]: We'll discuss this more in a few weeks so come back to this question then

		aic.gov.au/privacy/the-privacy-act/ Sharing and storage: https://support.google.com/drive/answer/2450387?hl=en	ive/answer/2450387?hl=en	
5. Rights over data sources	Where did you get the data from? Is it data produced by an organisation or data collected directly from individuals?	Data are all directly collected from individuals and then merged for group data.	Data are all directly collected from individuals and then merged for group data.	Data are all directly collected from individual.
	Do you have permission or another basis on which you're allowed to use this data? What ongoing rights will the data source have? Have you agreed how the data will be used/destroyed within the group?	Agreements were made at the beginning not to share with any third party other than group members.		
6. Existing ethical frameworks	Countries, sectors and communities have existing ethical codes and frameworks. Which ones are relevant to this project?	1. UTS Code of Conduct: https://www.uts.edu.au/about/uts-governance/policies/uts-policy/code-conduct 2. OAIC The Australian Privacy Principles: https://oaic.gov.au/privacy/guidance-and-advice/guide-to-data-analytics-and-the-		

		australian-privacy-principles/. 3. Floridi, L., & Taddeo, M. (2016). What is data ethics? Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences, 374(2083), 20160360. https://doi.org/10.1098/rsta.2016.0360 4.

7. Your reason for using this data	What is your primary purpose for using data in this project?	My primary purpose for using those data is for QS project, self-tracking of different variables through various tools and methods. The procedures of QS project include evaluation of data quality, analysis of data, reflecting limitations, ethical and privacy issues.		
	What are you attempting to do?	Attempted to find trends of fashion attributes and the correlation between clothing choices and daily emotion.	Attempted to find trends of digital usages through mobile phones and computer browsers.	Attempted to find the relation of day and circumstance with daily emotions.
	How could this data be used to gain insight that could lead to innovation (new apps, research insight, insight into your personal selves, etc.)?	This data may be useful for fashion businesses or people who are interested in fashion creation.	This data may be used to help web application developer or software developers when they refer to trends of	This data may be used as a reference or evidence for emotion-related research. Also, it will be used for my personal

		digital sources. This data will also be useful for my self-track in the future.	development on daily routine.
	Are there existing projects or services that attempt to gain this kind of insight? Do they have any ethical issues?		
	Are you making things better? How? For whom?	N/A	It is very useful my self-improvement.	It is very useful my self-improvement.
8. Communicating your purpose	Do people, especially those the data is about or who are impacted by its use, understand your purpose?	Yes, we permitted each other ONLY to use for our QS project.		
9. Positive effects on people	Beyond you as a group, which individuals, demographics or organisations could be positively affected by this project?	All of our group members (MDSI students) will be positively affected by this project, as the Quantified Self project aims at providing a broad understanding of data science practices and its applications. Through collecting data in group in various ways and conducting data analysis and evaluating data ethics and quality, MDSI students all learn how data are collected and analysed, along with ethical and legal considerations.		
	How will they be positively affected?			
	How could you increase the positive impact of this project?			

	How are you measuring positive impact?			
10. Negative effects on people	Who could be negatively affected by this project?	As mentioned in ethical concerns section, 1. Sensitive data 2. The risk regarding use of third parties 3. The risk of re-identification 4. Potential misuses		
	Could the manner in which this data is collected, shared or used: - cause harm? - be used to target, profile or prejudice people? - unfairly restrict access (eg exclusive arrangements)? Could people perceive it to be harmful?			
11. Minimising negative impact	What steps can you take to minimise harm?	In order to minimise harm, ensure 1. De-identified format of data 2. Checking and clarifying conditions and consent validity for third-party applications. 3. Avoiding sharing sensitive data, such as photo or personal information. 4. Sharing and string data in secure place, such as google drive Negative impacts were based on ethical and privacy perspective.		
	Are there measures you could take to reduce limitations in your data sources?			
	Could you monitor potential negative impact to support mitigating activities?			
	What benefits will these actions add to your project?			
	How are you measuring negative impact?			

13. Communicating risks and issues	Are you building into the project the thoughts, ideas and considerations of people affected by your project? How?	Through frequent group communications in person and whatsapp, we discussed potential side-effects and tried to reduce those risks at maximum. For example, we focused on prioritizing our privacy and ethical issues. Any personal sensitive data were concerned and carefully treated ONLY within our group. For example, we realized that individuals' records of URLs and application names could be very sensitive and hence we decided to remove them in data collection process.
	Are you communicating potential risks or issues?	
	How are limitations and risks being communicated to people? Consider: - those the data is about - those impacted by its use or affected by your project - organisations using data	
	What methods are you using?	
14. Reviews and iterations	How will ongoing issues related to data ethics be monitored and discussed?	
	When will your responses to the canvas be reviewed or updated?	
15. Your actions	What actions are you going to take before moving forward with this project?	If I am going to do this project again, I am going to ensure to check consent validity and terms and conditions of third-party applications. These

	Which of them should take priority?	actions are responsible for people, who are collecting data and analysing data, using tools/applications.
	Who will be responsible for these actions and who needs to be involved in them?	
	Will you publish your actions and answers to this canvas openly?	