



Dataset	Moodable	EMU	SADD	DepreST
Year	2017-2018	2018	2020-2021	2021
Participants	300+	60+	300+	400+
Population	MTurk	MTurk	Students	Prolific
Labels	PHQ-9	PHQ-9, GAD-7	PHQ-9	PHQ-9, GAD-7
Text Messages	Content	Content	Only Logs	Content

Mobile Data Collections for Mental Illness Screening ML Tlachac, Data Science PhD Candidate **Advisor: Elke Rundensteiner**

rol	8:52 • •	
B:51 © 		
EMŲ Survey 2	1. What is your gender?	8:53 ()
Over the last 2 weeks, how often have you been bothered by the following problems? 0 - Not At all 1 - Several Days 2 - More than Half the Days 3 - Nearly Every Day	 Man Woman Other What is your age? 18-23 24-39 40-55 	EMŲ Voice Descr
1. Feeling nervous, anxious or on edge	 56+ Prefer not to answer 	
0 01 02 03	3. Are you a student?	
2. Not being able to stop or control worrying	 Yes, I am a undergrad student 8:56	
0 01 02 03	EMŲ Demographics	8:53 🛈 🗐
3. Worrying too much about different things	1. What is your age?	
0 01 02 03	 18-23 24-39 	
4. Trouble relaxing	0 40-55	De
0 01 02 03	 56+ Prefer not to answer 	influ
SUBMIT	2. Are you a student?	
	 Yes, I am an undergrad student Yes, I am a graduate student 	
pe impacts behavio		EMŲ Voice Red
	EMŲ Voice Recording	
ibe your favorite place:	Describe a good friend: RECORD	Read out we call a word wou
3/200	30s	
SUBMIT	SUBMIT	

Acknowledgments

- SADD & DepreST teams: Reisch, Toto, Kayastha, Taurich, Melican, Bruneau, Caouette, Flores
- Prior teams on the EMUTIVO research project (emutivo.wpi.edu) and the DAISY lab
- US Department of Education P200A180088: GAANN grant and Data Science Department at WPI

References

- Dogrucu, et al. "Moodable: on feasibility of instantaneous depression assessment using machine learning on voice samples with retrospectively harvested smartphone and social media data." Smart Health (17), 2020
- Tlachac, et al. "EMU: Early Mental Health Uncovering Framework and Dataset." In Submission
- Gratch, et al. "The distress analysis interview corpus of human and computer interviews." LREC, 2014.
- Cai, et al. "MODMA dataset: a Multi-modal Open Dataset for Mental-disorder Analysis." arXiv preprint, 2020
- Burgess, et al. "Stereotype threat and health disparities: what medical educators and future physicians need to
- know." Journal of general internal medicine (25.2), 2010 Tlachac, M. L., and Elke Rundensteiner. "Screening for depression with retrospectively harvested private versus public text." IEEE journal of biomedical and health informatics (24.11), 2020

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