Manual evaluation of inferred information about Reddit users

Thank you for your help in manually checking automatically inferred or extracted information about Reddit users with a self-reported diagnosis of bipolar disorder (BD). Please provide your annotations in the respective sheets of [Annotation excel sheet].

1. BD diagnosis (100 users) – sheet "BD diagnosis"

Please label for each user in the sheet "BD diagnosis" (see Table 1) whether they report to have received a BD diagnosis in the column 'include?', considering the "Yes" and "No" criteria below and the examples in Table 2. Provide comments in the 'comment' column if necessary.

Table 1 Sheet	'BD diagnosis	' to label	whether	users	report a	BD diagnosis

Column	id	# self-reported			Self-reported	Self-reported
		diagnosis			diagnosis post	diagnosis post 2
		posts	include?	comment	1	16
Expla-	User Id			Provide		Further
nation	in	Number of	Select	reason for	Id, time posted	identified self-
	database	identified self-	yes/no	'no' label,	at and text of	reported BD
		reported BD	– see	add	one identified	diagnosis posts
		diagnosis	below	comment	self-reported	(random order,
		posts for this	for	if deemed	BD diagnosis	maximum
		user	criteria	necessary	post	number is 16)
Example	1	1			1(2016-12-16	
					15:31:43): i	
					can relate with	
					your rage, I am	
					diagnosed with	

Criteria for self-reported BD diagnosis

Yes:

- At least one identified self-reported diagnosis post indicates that the user was diagnosed with BD by a health professional (e.g. psychiatrist, psychologist, doctor) at some point in their life.
- To indicate an official diagnosis a user needs not necessarily mention what professional made the diagnosis (e.g. by a doctor/psychiatrist), but could also indicate, for example, the time when the diagnosis was made ("I was diagnosed with BD seven years ago/with 30") or other context in the posts could indicate this is not a guess/self-diagnosis (see examples below).
- Any type of BD diagnosis is fine: manic depression, BD-1, BD-2, BD not otherwise specified (NOS), rapid cycling bipolar disorder, cyclothymia
- As long as the user reports that some professional diagnosed them with BD at some point in their life (including childhood), label as 'yes' even if the author states that they do not agree with the diagnosis (anymore), or that other professionals provided a different/no diagnosis. The reason for this is that it is impossible to judge from a users' posts if past or present diagnoses were/are warranted according to diagnostic manuals.

No:

The text indicates that someone else than the author was diagnosed

- The diagnosis is something different than BD (e.g. BPD mostly refers to a different diagnosis of Borderline Personality Disorder, except when used with 1/2 as BPD-1, BPD 2, or BPD I, BPD II)
- The diagnosis is not official (self-diagnosed, guess, a friend said so, ...)

Table 2 Example Yes/No labels for self-reported BD diagnosis illustrated with tweets (paraphrased)

Tweet	Label	Reason/Explanation
I was diagnosed at 16 w severe depression;	Yes	The depression diagnosis seems to have
I'm not ashamed to say I have wished for		been made by professional due to the age
that finality many times. Since then bi-polar;		provided. In this context "since then bi-
PTSD.		polar" indicates that this diagnosis was also
		made by a professional.
I've been diagnosed with bipolar for almost	Yes	Time indicates that diagnosis was made by
a year now.		professional and is not self-diagnosis.
thinking about that time an actual licensed	Yes	User reporting a bipolar disorder type 2
pyschiatrist told me that my bipolar 2		diagnosis to psychiatrist (even though that
diagnosis wasn't valid because 'bipolar 2		psychiatrist things BD does not exist)
isn't real' - i'm still so mad about it		indicates that it was made by a professional
		and is not merely self-diagnosis.
This makes me so angry. I was diagnosed	Yes	Although BD diagnosis was not valid
with bipolar and put on mood stabilizers for		according to the tweet author, it seems to
YEARS when really it was just my birth		have been made by professional at some
control. 📳		point and was treated with medication.
My new doctor is better than my old one,	Yes	BD diagnosis was made by doctor, although
but still not great. The old doctor diagnosed		new doctor disagrees.
me as bipolar and treated for that for 5		
years. For me to find that's incorrect		
i was diagnosed with schizoaffective bipolar	No	Refers to schizoaffective disorder, bipolar
disorder 🔞		type (a different diagnosis from bipolar
		disorder that is actually an exclusion
		criterium for a bipolar disorder diagnosis)
I feel you sis. I'm not bipolar but I was	No	Other diagnosis but not BD
diagnosed with borderline personality		
disorder and its SO exhausting.		
I am diagnosed with aspergers syndrome	No	Guesses BD diagnosis, not confirmed by
and ODD. I am undiagnosed with but		clinician
probably have anxiety, paranoia, bi polar,		
depression and unkown others.		

2. Gender and age (116 users) – sheet "gender+age"

Age and gender information was extracted from post titles of users that matched a specific regular expression, intended to capture cases like this: 'Me [17f] just broke up with partner [17m]'. This indicates that the user is female and 17 years old at the time of posting. All posts of a user that matched the regular expression are taken together to check for the consistency of the extracted information and summarised in the 'gender+age' excel sheet (see Table 3).

Please annotate in the four bold faced final columns (see Table 4) whether the extracted information is correct. Some users in the sheet only have either a gender or date of birth value assigned. Only use the information presented in the sheet, do not check Reddit user profiles for this.

Table 3 Sheet 'gender+age': columns with extracted gender and age information

Colu	id	posts	post titles	age + gender	age +	set of	extracted	extracted
mn		dates		self-reports	gender	extracte	gender	date of birth
				in		d dates		
				parentheses		of birth		
Expla	User	Dates of	Post titles	Age + gender		Age	m or f if set	Earliest date
natio	id in	posts	from	information		(years,	if age +	of birth
n	data	whose	which age	in		months,	gender	(day/month/y
	base	titles	+ gender	parentheses		days)	only	ear) if range
		matched	was	that		subtract	contains	of set of
		regular	extracted	matched		ed from	one gender	extracted
		expressio		regular		post	value or	dates of birth
		n		expression		date	one value	<= 1 year;
							and None;	otherwise?
							otherwise?	
Exam	427		{'[28][M4			{datetim		
ple 1		{'2017-	F] Hoping			e.date(1		
		11-25	to find		{'28	989, 11,		
		07:06:19'}	love'}	{'[28]'}	None'}	25)}	5	25/11/1989
Exam	2531		{'[Help][Al			{datetim		
ple 2		{'2017-	drich][PC]	{'[Help][Aldri		e.date(1		
		04-04	[ng SL	ch][PC][ng SL	{'50	967, 4,		
		15:50:13'}	50]'}	50]'}	None'}	4)}	?	04/04/1967

Table 4 Sheet 'gender+age': columns for labelling

Column	gender	date of birth	corrected gender	corrected date of birth	Comment
	correct?	correct?			
Expla- nation	yes / no ? only if extracted gender is ?	yes / no ? only if extracted date of birth is ?	f or m if "gender correct?" is "no" or "?" and correct gender can be inferred from post titles, ? otherwise if "gender correct?" is "no" or person identifies as non-	Age subtracted from post date if "date of birth correct?" is "no" or "?" and correct age can be inferred from one or more post titles, ? otherwise if "date of birth correct?" is "no"	Any comment on this user
Ex.1	?	yes	binary gender/transgender m		[M4F] indicates that user is male
Ex. 2	?	no		;	looking for female partner

3. Country of residence (100 users) - sheet "country"

Please try to determine the country a Reddit user seems to live in based on their posts and the subreddits they posted in. See Table 5 for an explanation of the annotation sheet. As a help, the file [Excel sheet] lists all posts of users that contain a location mention (see Table 6). Note that this information is automatically extracted, so it contains some noise.

If a username does not appear in the file, this means that no locations could be extracted from their posts. In this case, please look up the user on reddit (https://www.reddit.com/user/[username]. First look at their thread starts (https://www.reddit.com/user/[username] /posts/) in their order of recency, to see if any of their texts indicates a location (e.g. 'as an American') or if they were posted in a location-specific subreddit (e.g. r/BerlinJobs). If you cannot determine a country from the posts, also look at a users' comments, searching for clues in a similar way (https://www.reddit.com/user/[username] /comments/).

It may not be possible to infer a country for all users. If a user has > 50 posts or comments, you do not need to check all of them for clues.

Further conventions for country of residence annotation:

- If a user indicates moving, enter the most recent country, even if this does not seem to be the country where they have been living longest so far.
- If the user indicates to stay somewhere temporarily (on vacation, studying abroad), enter the normal country of residency if you can determine it, otherwise "?".
- Just enter a users' country, even if they provide more specific city/state information.

Table 5 Sheet 'country' for country of residence labelling

Column	Username	Country	Reason
Explanation + Example	Reddit username	Please enter the latest country of residence of this user as a two letter ISO Alpha-2 code (see https://www.iban.com/country-codes). ? if you cannot determine the country	Evidence that user is from suggested country: Short excerpt + link to the post (e.g. "I'm from Germany" reddit.com/r/)

Table 6 user-country-posts.xlsx sheet to support country of residence labelling.

Colum	Usern	Locations	Post date	Post url	Post
n	ame				
Explan ation	Reddit userna me	List of automatica Ily extracted locations in the post	Post date. Posts for each user are listed in descending order of recency	Prefix url with reddit.com/ to look at the thread with this post on reddit. The term after r/ indicates the subreddit	Full post text
Examp le	[usern ame]	['mascara'] Example for noise, Mascara is a also a city in Algeria	22/08/2018 05:53:41	[link]	Shopping sucks, I was looking for clear mascara today. []