Demographic Inference TASKS

Ø	Pre	processing with profile info
	Ø	Clean json and prepare csv
	\checkmark	Run Roberta Model
Ø	Со	mpare new DA prediction w/ new ones
Ø	Dru	ıg Type Identification
	❷	Add multiple drug types if exists
Ø	De	mographic Inference
	Ø	Demo inference script
0	Spa	an Emo
	✓	Validate demo inference Span Emo
	\checkmark	tweak script for custom CSV
	❷	Span Emo validation
		F1-Micro score: 70%
	0	Span Emo check/join for very large data
	❷	Script to do it for multiple folders at once
	0	Data from https://competitions.codalab.org/competitions/ 17751#learn_the_details-datasets
0	VA	DER
	\bigcirc	Single script that predicts sentiment
	❷	Add sentiment score in vader script
	0	VADER validation
		VADER (F1 = 0.96) actually outperforms even individual human raters (F1 = 0.84) at correctly classifying the sentiment of tweets.
		<pre>sentiment['compound'] < -0.05 => Negative. sentiment['compound'] > 0.35 => Positive.</pre>
0	RA	CE and Ethnicity
	\bigcirc	https://github.com/appeler/ethnicolr
	\bigcirc	https://github.com/wri/demographic-identifier also uses ethnical
0	BEI	RT topic analysis
	\bigcirc	Train; get topic

GPT prompt; how?
https://www.pinecone.io/learn/bertopic/
https://maartengr.github.io/BERTopic/api/representation/openai.html
https://github.com/MaartenGr/BERTopic
Multivariate analysis
Methods study??
Manuscript
Skeleton
Abstract
Literature Review
Methods
Data Preprocessing
Data Flow Diagram
References
 Social Media Drug Abuse and age and gender
Social media and Age and Gender
Emotional tone, sentiment, theme/topic
 Large scale social media profile
Quantitative analysis

Year	Prepr oces s w/ profil e info	Re run Drug abus e predi	Dem o infer	Senti ment infer	Emo infer	Topic Analy sis	Dum p in singl e file	Quan titativ e	Quan titativ e
		ction							
2019	done	done	done	Done	Doin g		done		
2020	done	done	done	done	done		done w/ senti	done	
							ment		

2021 done done Done done	doing Done
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2019_old	2019_new	2020_old	2020_new	2021_old	2021_new
01>	01>	01>	01>	01>	01>
(244486,	(314802,	(298034,	(298598,	(102294,	(102480,
3)	13)	3)	14)	3)	13)
02> (261101, 3)	02> (262253, 13)	02> (133860, 3)	02> (133950, 14)	02> (257633, 3)	02> (258027, 13)
03>	03>	03>	03>	03>	03>
(230673,	(243710,	(348130,	(340683,	(264017,	(264285,
3)	13)	3)	14)	3)	13)
04>	04>	04>	04>	04>	04>
(267526,	(264268,	(349761,	(351455,	(115620,	(115718,
3)	13)	3)	14)	3)	13)
05>	05>	05>	05>	05>	05>
(283141,	(284107,	(300394,	(302246,	(233142,	(233402,
3)	13)	3)	14)	3)	13)
06>	06>	06>	06>	06>	06>
(279331,	(287253,	(330517,	(331107,	(224678,	(239514,
3)	13)	3)	14)	3)	13)
07>	07>	07>	07>	07>	07>
(222454,	(223417,	(277008,	(277488,	(223018,	(223202,
3)	13)	3)	14)	3)	13)
		08> (335009, 3)		08> (238446, 3)	08> (238584, 13)
09>	09>	09>	09>	09>	09>
(194107,	(194789,	(307877,	(308060,	(218731,	(218902,
3)	13)	3)	14)	3)	13)
10>	10>	10>	10>	10>	10>
(176767,	(177181,	(329109,	(329913,	(238427,	(263079,
3)	13)	3)	14)	3)	13)
11>	11>	11>	11>	11>	11>
(188509,	(188957,	(245544,	(245858,	(217406,	(224491,
3)	13)	3)	14)	4)	13)

12>	12>	12>	12>	12>	12>
(306368,	(307397,	(263789,	(264259,	(234558,	(235780,
3)	13)	3)	14)	3)	13)
(2854023	2948336,	(3519032	(3518956	2567970,	2617464,
, 3)	13	, 3)	, 15)	3	13
	2799726,		3502171,		2553235,
	16		16		16

Old total: (8941025, 4)