TBD^*

TBD

Yingying Zhou, Yang Wu, Xinyi Xu, Hong Pan

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Abstract

First sentence. Second sentence. Third sentence. Fourth sentence.

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 $^{{\}rm ^*Code\ and\ data\ are\ available\ at:\ https://github.com/yangg1224/Political_Deepfake_Videos.git.}$

1 Introduction

2 Data

2.1 EDA

2.1.1 treat distribution

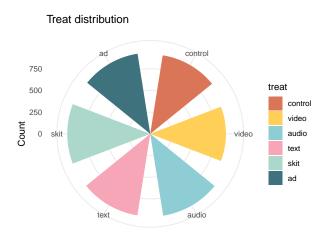


Figure 1: Employee numbers distribution

2.1.2 education level distribution by PID

2.1.3 sexism by education level

2.2 internet usage frequency by education level

```
## Warning: Use of 'EDA$educ' is discouraged. Use 'educ' instead.
```

Warning: Use of 'EDA\$meta_OS' is discouraged. Use 'meta_OS' instead.

Warning: Use of 'EDA\$age_65' is discouraged. Use 'age_65' instead.

2.2.1 post favor by treat

2.2.2 Average deception level by treat

'summarise()' ungrouping output (override with '.groups' argument)

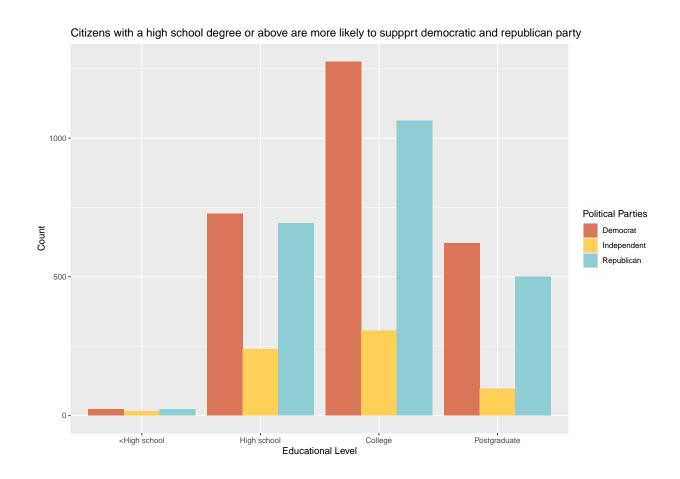


Figure 2: Educational level by PID

Table 1: Average deception level of each media format

treat	Average Deception Level
video	3.228438
audio	3.351178
text	3.305946
skit	2.569316
ad	2.989059

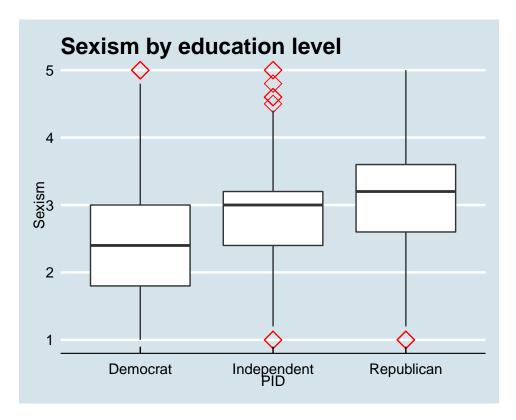


Figure 3: sexism by education level

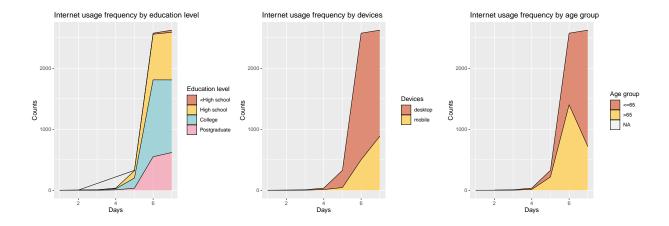


Figure 4: internet usages

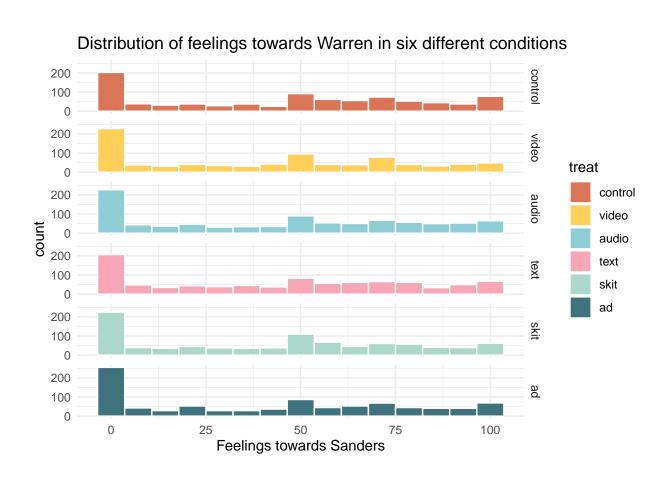


Figure 5: Distribution of feelings towards Sanders in six different situations

3 Model

3.1 Deception Level

3.1.1 T test1

Table 2: T test: Deception level of video vs audio

AVG_deception_video	AVG_deception_audio	p.value	conf.low	conf.high	method	alternative
3.228438	3.348243	0.0538155	-0.2415774	0.0019682	Welch Two Sample t-test	two.sided

3.1.2 T test2

Table 3: T test: Deception level of video vs text

AVG_deception_video	AVG_deception_text	p.value	conf.low	conf.high	method	alternative
3.228438	3.304207	0.2244956	-0.1980699	0.0465321	Welch Two Sample t-test	two.sided

3.1.3 T test3

Table 4: T test: Deception level of video vs skit

AVG_deception_video	AVG_deception_skit	p.value	conf.low	conf.high	method	alternative
3.228438	2.574586	0	0.5024785	0.8052267	Welch Two Sample t-test	two.sided

3.2 Affect Level

3.2.1 T test 1

Table 5: T test: Affect level of video vs control

AVG_affect_video	AVG_affect_control	p.value	conf.low	conf.high	method	alternative
41.27797	45.81395	0.005278	-7.721219	-1.350748	Welch Two Sample t-test	two.sided

3.2.2 T test2

Table 6: T test: Affect level of video vs text

AVG_affect_video	AVG_affect_text	p.value	conf.low	conf.high	method	alternative
41.27797	44.2234	0.0652461	-6.077025	0.1861569	Welch Two Sample t-test	two.sided

3.2.3 T test3

Table 7: T test: Affect level of video vs audio

AVG_affect_video	AVG_affect_audio	p.value	conf.low	conf.high	method	alternative
41.27797	43.92593	0.0997404	-5.80127	0.5053586	Welch Two Sample t-test	two.sided

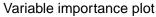
3.2.4 T test 4

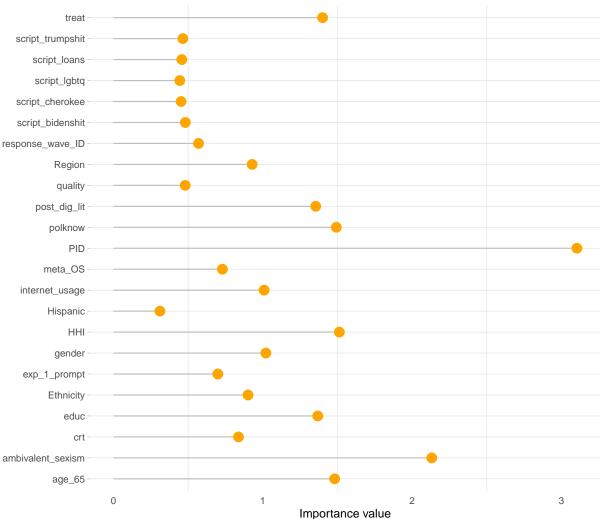
Table 8: T test: Affect level of video vs skit

AVG_affect_video	AVG_affect_skit	p.value	conf.low	conf.high	method	alternative
41.27797	43	0.2772717	-4.829684	1.385625	Welch Two Sample t-test	two.sided

3.3 Feature selection

```
##
## Attaching package: 'plyr'
## The following object is masked from 'package:here':
##
##
       here
## The following object is masked from 'package:ggpubr':
##
##
       mutate
## The following objects are masked from 'package:dplyr':
##
##
       arrange, count, desc, failwith, id, mutate, rename, summarise,
##
       \operatorname{summarize}
## The following object is masked from 'package:purrr':
##
##
       compact
```





3.4 regression model

gender.L

-1.56

##		(4.82)
##	gender.Q	-0.97
##		(2.81)
##	educHigh school	-1.21
##		(3.61)
##	educCollege	0.71
##		(3.61)
##	educPostgraduate	9.32**
##		(3.69)
##	150k	3.90**
##		(1.76)
##	150k	4.01**
##		(1.94)
##	49k	-0.92
##		(1.04)
##	74k	-0.21
##		(1.17)
##	99k	0.06
##		(1.15)
##	HHIN/A	-4.95*
##		(2.92)
##	EthnicityBlack	3.11
##	·	(2.46)
##	EthnicityOther	-1.06
##	·	(2.64)
##	EthnicityWhite	0.56
##	·	(1.92)
##	RegionNortheast	3.89***
##		(1.11)
##	RegionSouth	0.45
##		(0.99)
##	RegionWest	0.92
##	_	(1.16)
##	meta_OSmobile	-1.27
##		(0.99)
##	age_65> 65	-4.36***
##		(0.85)
##	PIDIndependent	-26.69***
##		(1.22)
##	PIDRepublican	-39.52***
##		(0.86)
##	ambivalent_sexism	-4.06***
##		(0.48)
##	polknow	1.33
##		(1.72)
##	treatvideo	-2.53
##		(1.55)
##	treataudio	-2.82*
##		(1.53)
##	treattext	-1.73
##		(1.56)
##	treatskit	-2.85*
##		(1.53)
##	treatad	-3.84***

##		(1.27)
##	script_bidenshit	-1.68
##		(1.41)
##	script_trumpshit	-2.13
##		(1.39)
##	script_cherokee	-1.15
##		(1.40)
##	script_lgbtq	0.65
##		(1.40)
##	<pre>exp_1_promptinfo</pre>	0.76
##		(0.73)
##	<pre>post_dig_lit</pre>	-3.95
##		(2.78)
##	<pre>internet_usage</pre>	1.12*
##		(0.58)
##	crt	-0.89
##		(1.64)
##	Constant	69.87***
##		(6.45)
##		
	Observations	5,468
##		0.39
	Adjusted R2	0.38
##	Note:	*p<0.1; **p<0.05; ***p<0.01

$$Pr(\theta|y) = \frac{Pr(y|\theta)Pr(\theta)}{Pr(y)} \tag{1}$$

Equation (1) seems useful, eh?

Here's a dumb example of how to use some references: In paper we run our analysis in R (R Core Team 2020). We also use the tidyverse which was written by Wickham et al. (2019) If we were interested in baseball data then Friendly et al. (2020) could be useful.

We can use maths by including latex between dollar signs, for instance θ .

4 Results

5 Discussion

- 5.1 First discussion point
- 5.2 Second discussion point
- 5.3 Third discussion point
- 5.4 Weaknesses and next steps

A Appendix

A.1 missing value

```
## Loading required package: colorspace
## Loading required package: grid
## VIM is ready to use.
## Suggestions and bug-reports can be submitted at: https://github.com/statistikat/VIM/issues
## ## Attaching package: 'VIM'
## The following object is masked from 'package:datasets':
## ## sleep
## Warning in plot.aggr(res, ...): not enough vertical space to display frequencies
## (too many combinations)
```

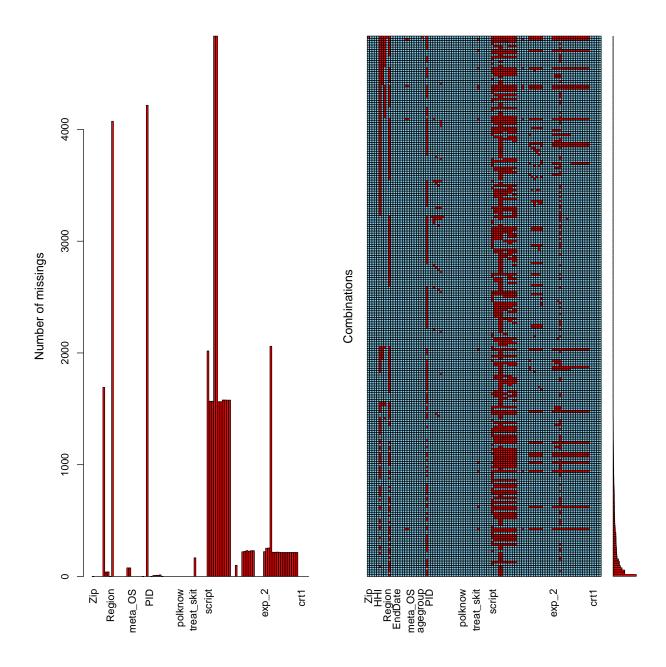


Figure 6: Missing value Visualization

References

Friendly, Michael, Chris Dalzell, Martin Monkman, and Dennis Murphy. 2020. Lahman: Sean "Lahman" Baseball Database. https://CRAN.R-project.org/package=Lahman.

R Core Team. 2020. R: A Language and Environment for Statistical Computing. Vienna, Austria: R Foundation for Statistical Computing. https://www.R-project.org/.

Wickham, Hadley, Mara Averick, Jennifer Bryan, Winston Chang, Lucy D'Agostino McGowan, Romain François, Garrett Grolemund, et al. 2019. "Welcome to the tidyverse." *Journal of Open Source Software* 4 (43): 1686. https://doi.org/10.21105/joss.01686.