



# Modern Slavery

## Complain.app



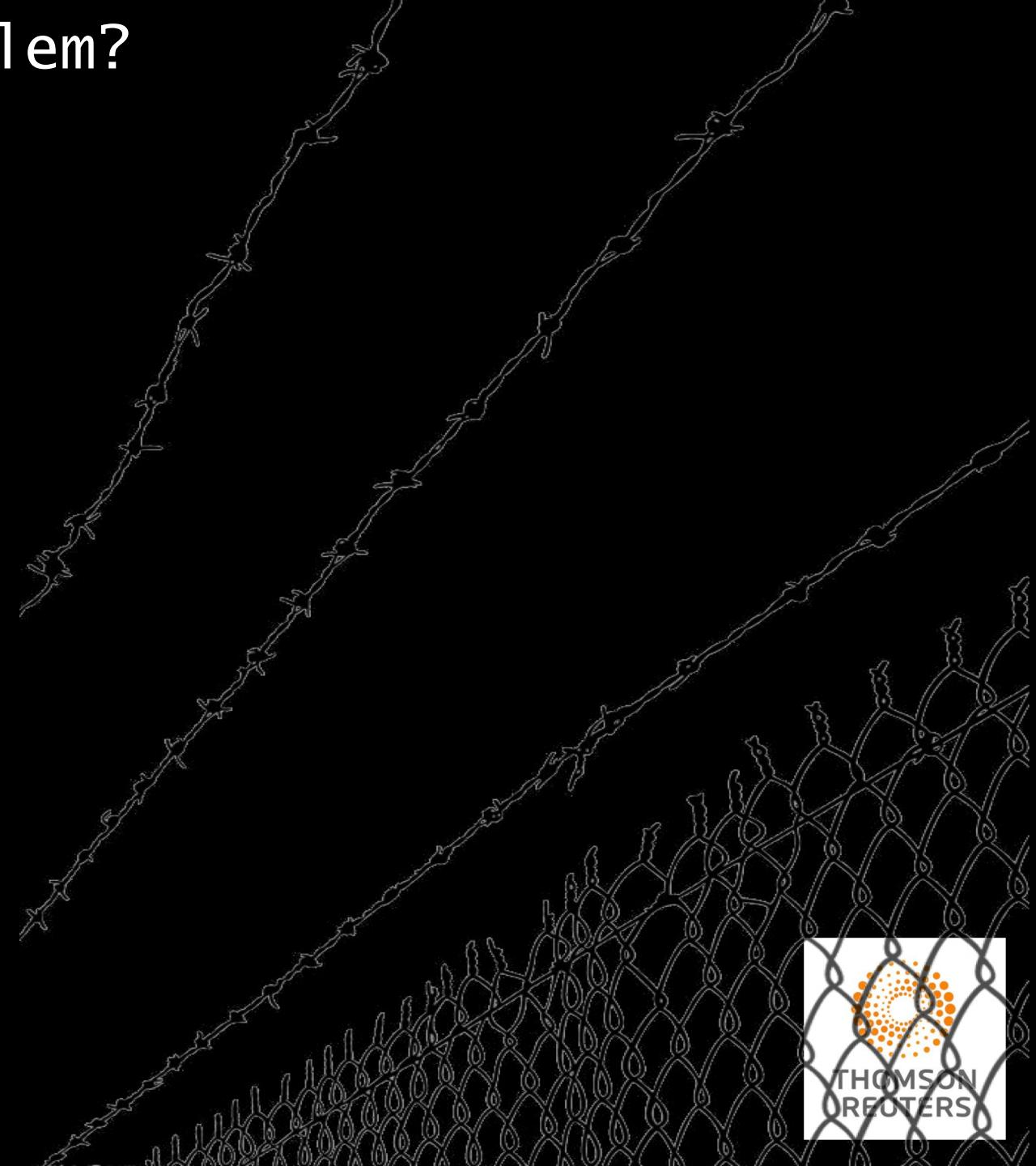
Hack'n'Lead

Hack'n'Lead - 2019  
4\*: Albin, Ashley, Kate, Masha



# How serious is the problem?

- Take it easy, hard days may happen
- You could consult your psychologist





# It can be hard to understand that things are going wrong

Non-critical

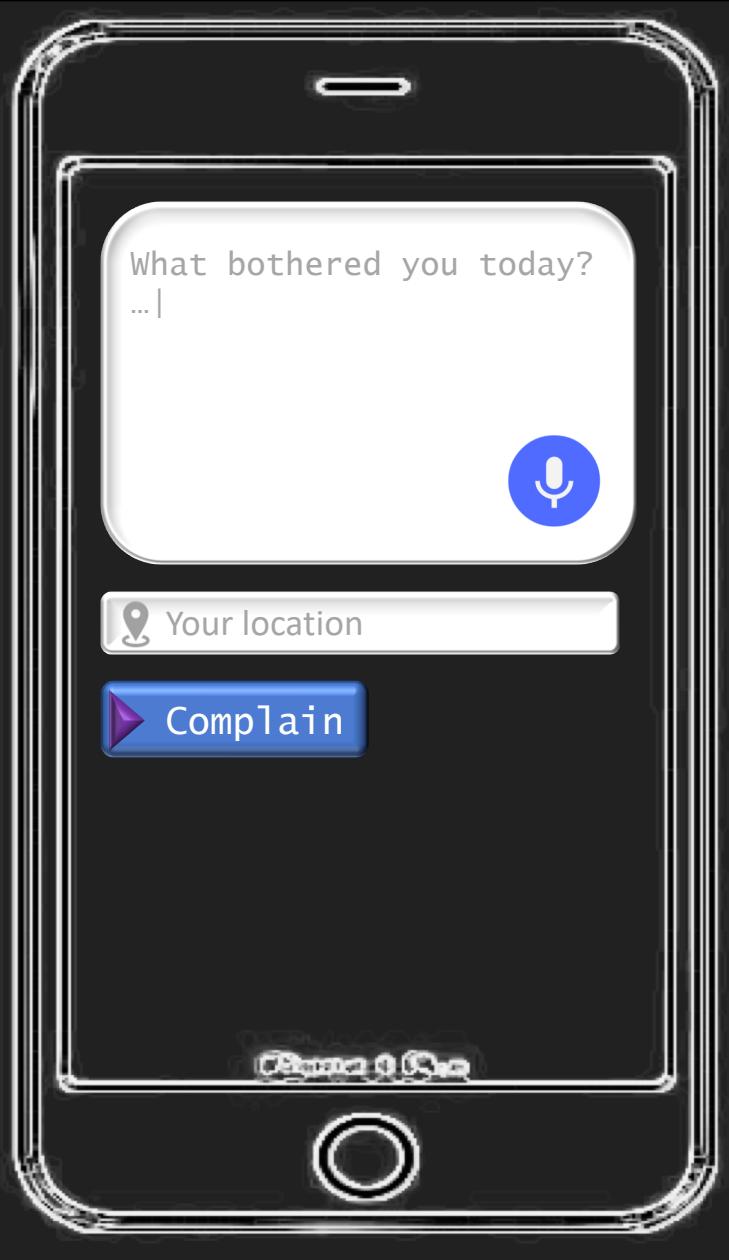
- Take it easy, hard days may happen
- You could consult your psychologist

Critical

- Please contact <location> hotline:  
 +0 ..... .
- Similar cases were successfully solved  
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# Based on person's complaint suggest an action



- Take it easy, hard days may happen
- You could consult your psychologist

Forward to NGO

- Please contact <location> hotline:  
 +0
- Similar cases were successfully solved  
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# Data

## Court cases

Human Trafficking Data

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### Search

View Case Files	Case Name	Case Number	# of Defendants	# of Victims
Case Files	USA v. Maka	1:03-cr-00084-SOM	1	4
Case Files	USA v. Alamin	2:00-cr-01001-R	2	1
Case Files	USA v. Pelayo	2:08-cr-00458-GAF	4	6
Case Files	USA v. Brown	1:13-cr-00341-BYP-1	1	2
Case Files	USA v. Curry (Ronnie) et al	3:11-cr-05555-BHS	2	1
Case Files	USA v. Callahan et al	1:13-cr-00339-BYP	3	2
Case Files	USA v. Cantu	2:01-cr-20322-SHM	2	16
Case Files	USA v. Montanez-Lopez	3:06-cr-00212-KI	3	1
Case Files	USA v. Carslake et al	4:06-cr-00317-DW	5	8
Case Files	USA v. Tecum	2:00-cr-00005-JES	2	1
Case Files	USA v. Miller (Reginald)	4:14-cr-00409-RBH	1	8
Case Files	USA v. Peterson	7:07-cr-00034-HL-RLH	1	1
Case Files	USA v. Babb et al	1:09-cr-00520-LMM-RGV	2	1

+

## General complaints

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Classes: Labor, Minor, Adult;

not related



# NLP models: Analysis

Validation: TF-IDF

Approach: Doc2vec

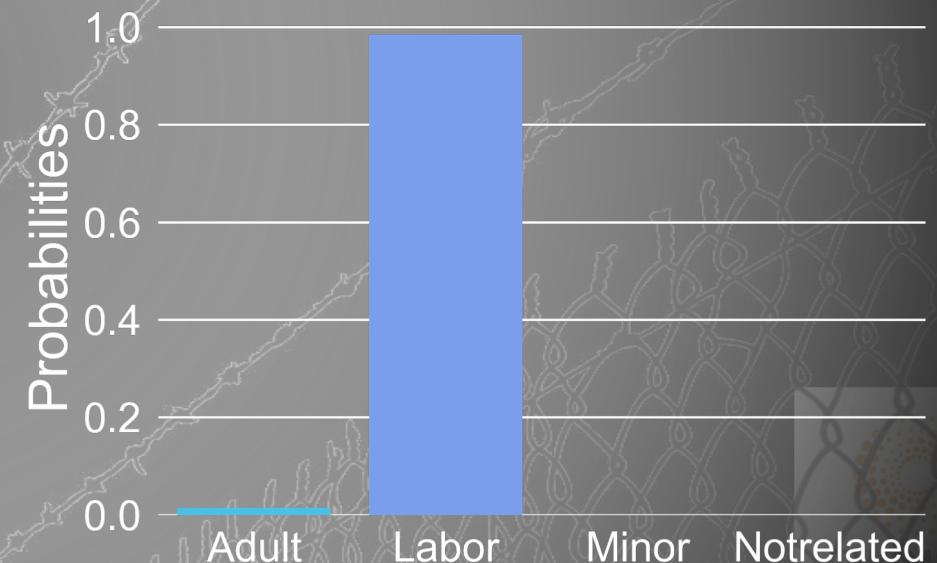


Misuse safe:

```
text0 = 'I am a slave for you'
```



```
text3='One of my friends in the village said  
The next day we all got a taxi and headed  
work on his cassava farm, earning $130  
with room and board included. We worked  
morning until night, for a month, until
```



# NLP models: Result



# Everyday complains

whole weeks! though complete' delivery' small' new' matter' hotel' digital' will' wasn' yourself' between' due' safety' machine' best' mean' offer' used' show' level' within' assembly' set' trucks' busy' projects' pay' location' zero' twice' process' next' he ' takes large' around' ever' the lazy' re' difficult' balance' enough' life' break' department' order' also' something' everyone' teams' are' unless' department' getting' expensive' day' own' now' these' dirty' per' doing' way' most' calls' work' own' now' week' than' damn' problem' does' room' bring' take' his' times' always' year' left' hr' actually' half' storm' resources' lot' dollars' top' emails'

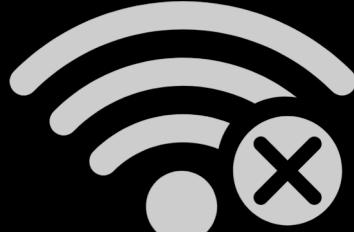
## Slave complaints

# Outlook

Data improvement:



More features for the App:



# Thank you for your attention!



<https://github.com/maffka123/hack-n-lead2019>



**Hack'n'Lead**

