Data Anonymization for Crisis Response: An NLP approach

a project by Aussie Frost for DSCI 410L

Background

• the CAHOOTS organization went on ## cases in 2023

Research Question

Can a script reliably remove identifying information such as names, phone numbers, and addresses from case narratives?

Data

time_of_call	call_type	call_transcription
2024-12-07 08:51:51	behavioral	Hi, this is Barrett Quill, Drake Vincent and Juno Jasp
2024-03-25 23:00:53	outreach	Hi, this is Xander Justice. I'm following up on my reco
2024-02-26 10:55:34	behavioral	My name is Fiona Quick, and I am contacting you reg
2024-04-25 19:32:59	medical	This is Yvette Ingram and Oscar Pace. I need to orde
2024-05-20 22:40:21	medical	We went on a case today. Finn Quest and Juno Frost
	2024-12-07 08:51:51 2024-03-25 23:00:53 2024-02-26 10:55:34 2024-04-25 19:32:59	2024-12-07 08:51:51 behavioral 2024-03-25 23:00:53 outreach 2024-02-26 10:55:34 behavioral 2024-04-25 19:32:59 medical

Figure 1. Case Narratives

Data

Figure 2. Name Data

```
"street",
street_list = [
                                  "st",
"street",
                                  "avenue",
                                                              street, st, avenue, ave
"st",
                                  "ave",
                                                              ter, park, pkwy, alley,
"avenue",
                                                              expy, east, west, north
                                  "boulevard",
"ave",
                                                              acacia, acorn park, acoi
                                  "blvd",
"boulevard",
                                                              ainsley, airport, alamed
                                  "road",
"blvd",
                                                             aldron, alexander loop,
                                  "rd",
```

Figure 3. Location Data

Methods

- My methods are this and also this
- There were methods that were this

Results

- My methods are this and also this
- There were methods that were this