The Social Media Hate Speech Barometer

Making-of

July 14, 2023

Access

Slides
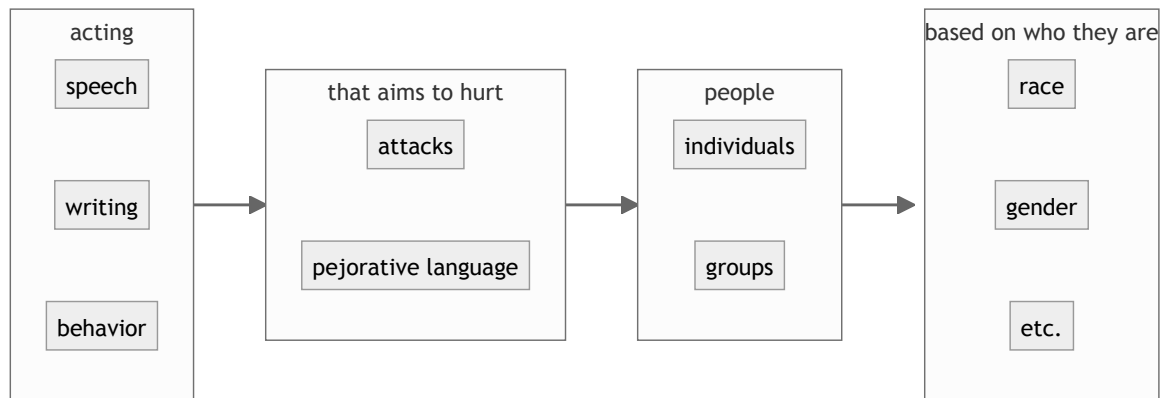
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https://sebastiansauer.github.io/hate-speech-barometer/talks/bmt-2023/

Project repo

 https://github.com/sebastiansauer/hate-speech-barometer

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Project objective

⊕
To provide applied researcher a template for speech classification

Definition of *hate speech*[1]

acting		that aims to hurt		people		based on who they are
speech	→	attacks	→	individuals	→	race
writing		pejorative language		groups		gender
behavior						etc.

1. Source: United Nations

Hate speech as a menace to society
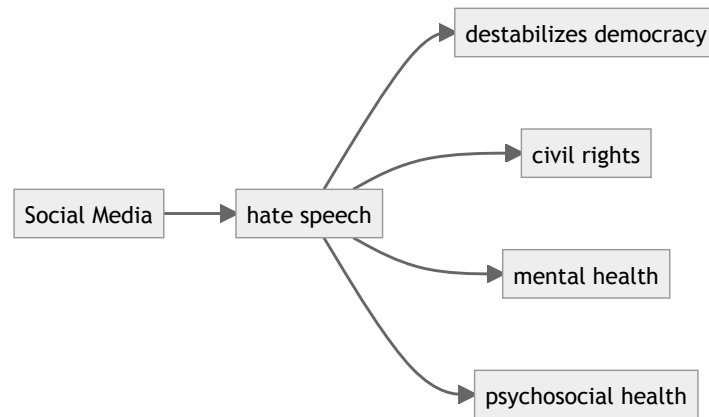
Calvert (**1997**), Cinelli et al. (**2021**), Castaño-Pulgarín et al. (**2021**), Chan, Ghose, and Seamans (**2016**)
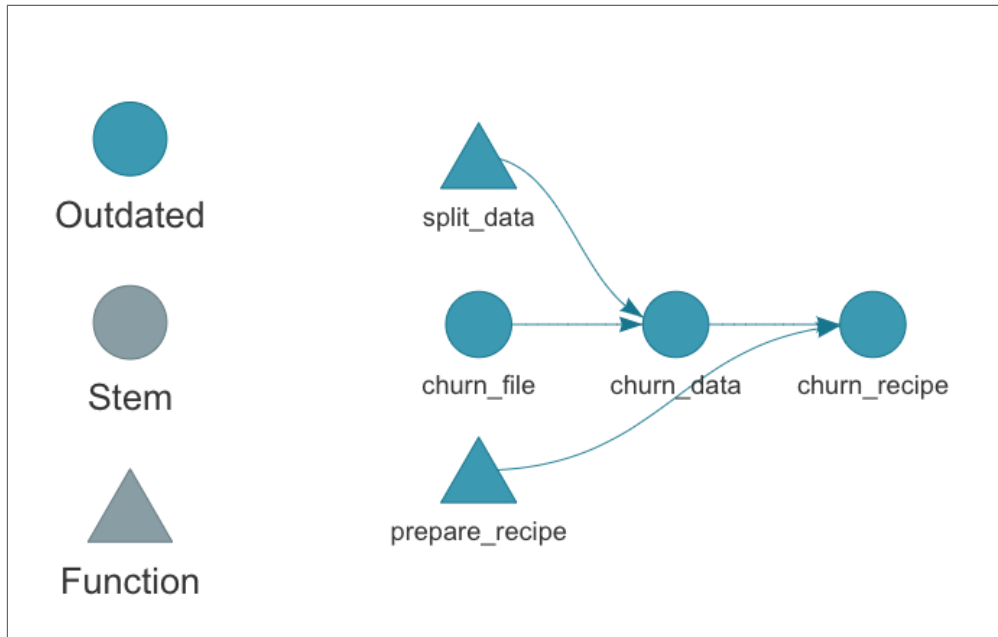
Machine learning for detecting hate speech? See Hartvigsen et al. (**2022**), Velankar, Patil, and Joshi (**2022**)
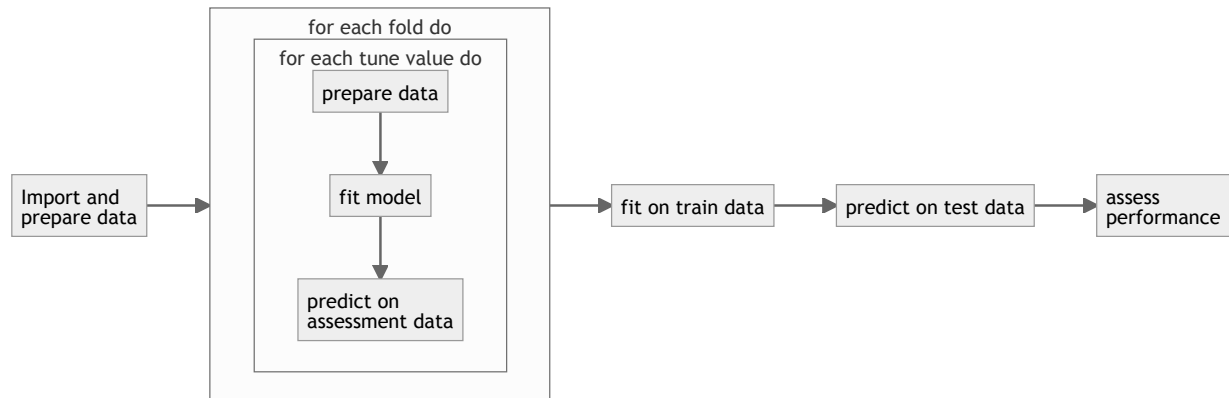
Overview on design ideas

1. 🕸️ *Project management* via **targets**

2. 🤖 *Machine learning* via **tidymodels** in Ⓡ

3. 🤝 *Collaboration platform* via **Github**

1. `targets` manages outdated computational objects

2. Machine learning standard pipeline

2. library(tidymodels)

```r
d_split <- initial_split(mtcars)

ranger_recipe <- recipe(formula = am ~ ., data = mtcars)

ranger_spec <-
  rand_forest(mtry = tune(), min_n = tune(), trees = 1000) %>%
  set_mode("classification") %>%
  set_engine("ranger")

rsmpl <- vfold_cv(d_train)

ranger_workflow <- workflow() %>%
  add_recipe(ranger_recipe) %>%
  add_model(ranger_spec)

ranger_tune <- tune_grid(ranger_workflow,
                         resamples = stop("add your rsample objec
```

2. Machine learning pipeline

3. Collaborate via `git(hub)`
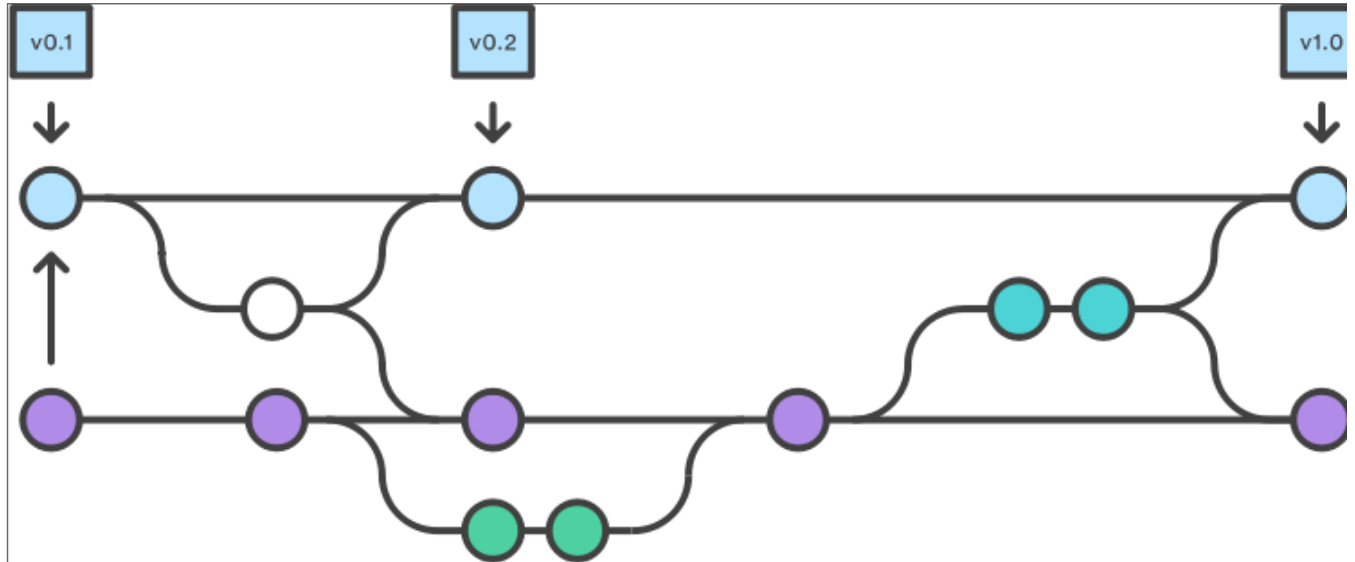
That's all folks! 👋

Link to the slides

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Technical details

Date of last update: 2023-07-12 08:50:58.

```
setting  value
version  R version 4.2.1 (2022–06–23)
os       macOS Big Sur ... 10.16
system   x86_64, darwin17.0
ui       X11
language (EN)
collate  en_US.UTF–8
ctype    en_US.UTF–8
tz       Europe/Berlin
date     2023–07–12
pandoc   3.1.1 @
/Applications/RStudio.app/Contents/Resources/app/quarto/bin/tools/
(via rmarkdown)
```

References

https://doi.org/10.1111/j.1460-2466.1997.tb02690.x

https://doi.org/10.1016/j.avb.2021.101608

https://aisel.aisnet.org/misq/vol40/iss2/8

https://doi.org/10.1038/s41598-021-01487-w

https://doi.org/10.48550/arXiv.2203.09509

https://doi.org/10.48550/arXiv.2209.05294