

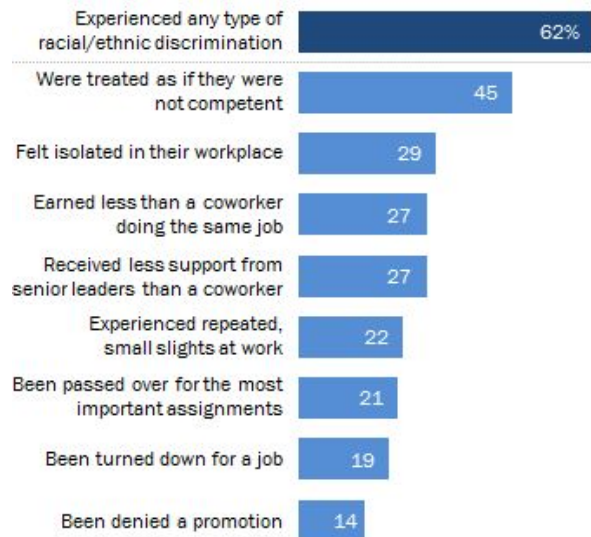
Inappropriate speech detection

Team Mavericks
@fortune @sai @serena @sofia

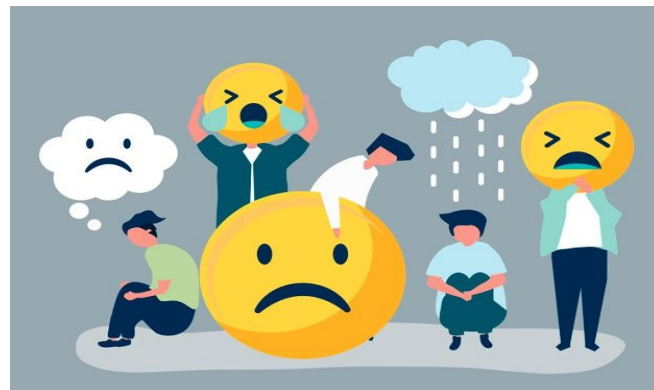
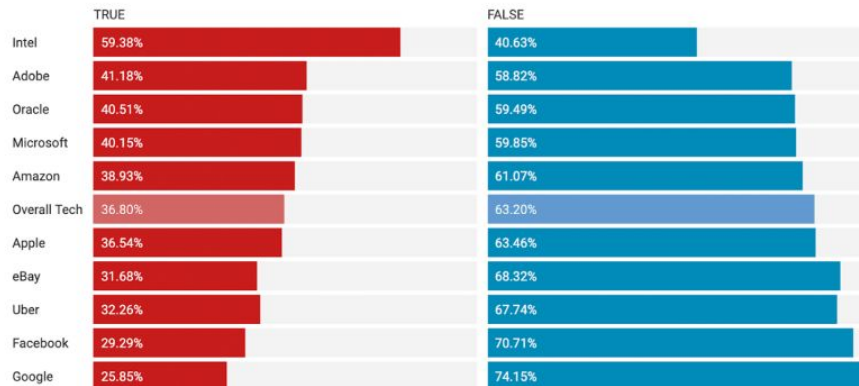
What's the problem we try to solve?



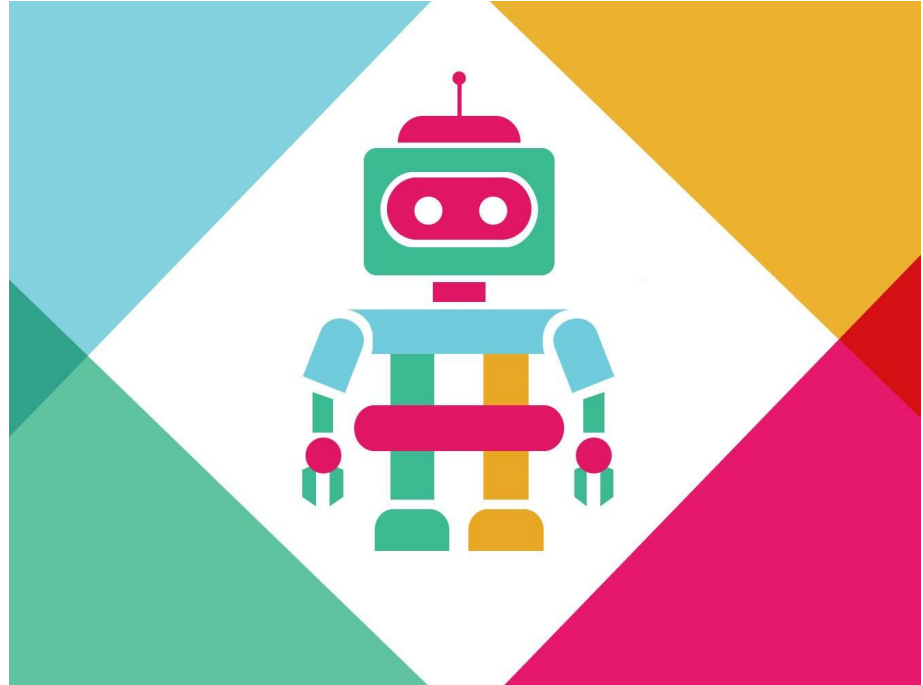
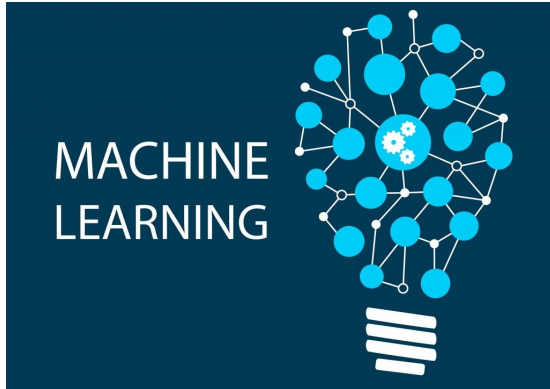
Inappropriate Comments



37% of Techies Have Witnessed Sexism at Work



Solution



How? (Data set)

Datasets of annotated tweets for racism & sexism

- https://github.com/AkshitaJha/NLP_CSS_2017
- <https://github.com/ZeerakW/hatespeech>

How? (Training)

[←](#) benevolent_sexist BETA [VIEW LABEL STATS](#) [EXPORT DATA](#)

IMPORT

TEXT ITEMS

TRAIN

EVALUATE

TEST & USE

Single-label classification

All text items131

Labelled131

Unlabelled0

Training85

Validation33

Testing13

Filter labels

benevolent_sexist104

racist27

ADD NEW LABEL

Warning: Importing data

DETAILSDISMISS

Filter table

Text items	Labels
capsicum and stock from a packet / jar..The quality of cooking I expected. Double standards from the...	racist
"jaywill66 on Twitter: \"WTF...#mkr the girls used bought sorbet amd that was the standout!??? Shou...	racist
"patricia hilder on Twitter: \"R u fucking kidding - catwalk - all that's missing is a pole #mkr\""	racist
"m y t h r i on Twitter: \"#katieandnikki stop calling yourselves pretty and hot..you're not and say...	racist
"Kali Cox on Twitter: \"Oh yeah Colin! Smash those girls! :D #MKR\""	racist
"Suzanne Carbone on Twitter: \"Kel the butcher has never heard of these silly sausages on #mkr http:...	racist
"Joshua Wilson on Twitter: \"@mykitchenrules did you find Katie and Nikki in the line for Mt Druitt'...	racist
"LilBeasy91 on Twitter: \"shit she knows how to walk.....you go girl...one foot in front of the othe...	racist
"patricia hilder on Twitter: \"Drasko they didn't cook half a bird you idiot #mkr\""	racist
"Sara on Twitter: \"@_saral93 not to mention these same girls on #MKR have super inflated egos consi...	racist
"food bling	racist
"LilBeasy91 on Twitter: \"yeah colin would be looking for more fat in his sausage.... #MKR\""	racist
"Joshua Wilson on Twitter: \"Anyone else notice that all 3 of Katie and Nikki's dishes were based on...	racist
you gotta walk the walk!! Do the girls know the recipe for humble pie??? #MKR\""	racist
"Jay on Twitter: \"Shut up Katie and Nikki... That is all :)\\n#MKR #MKR2015 #mykitchenrules\""	racist
"Pete and Three Veg on Twitter: \"\\\"@NewIdeamagazine:They weren't kidding when they said deconstruct...	racist
"Donny Calabria on Twitter: \"In the words of former contestant @whatsnextjake	racist

google-cloud-....tar....

google-cloud-....tar....

Mavericks-1ae0....json

doc.jpg

Show All

How? (Detection)

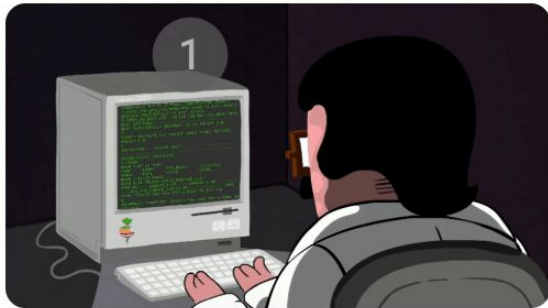


Speech and Text



How? (Education - Dialog flow)

- Explain why comments are inappropriate
- Train Dialog-bot to help frame better sentences.

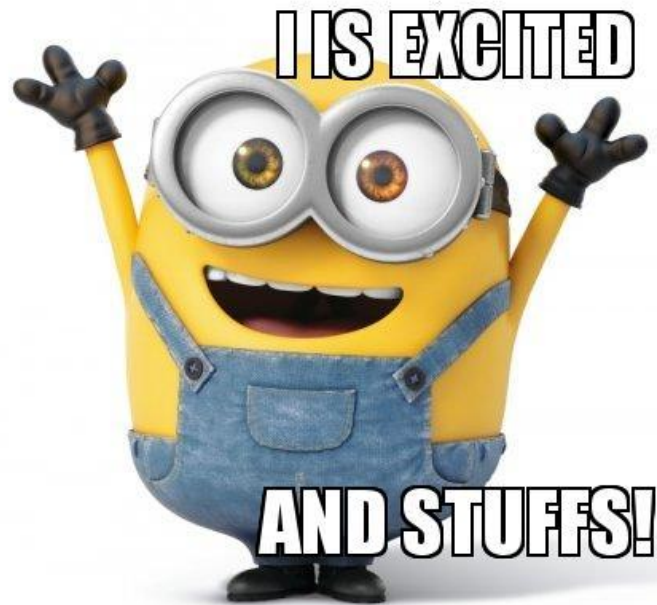


How? (Calls)

- Google Speech to Text for parsing voice



DEMO TIME!!



Challenges

- Training of model
- Dialog-flow requires a lot of examples
- Twitter != workplace communications

Next steps

- Train model with more data
- Report for repetitive comments
- Productionize (Google Run for our API)
- More platforms (Google Assistant, Viber, Telegram,...)

Best part

- Everybody learned and contributed
- We had a lot of fun :)

