

Twitter is readily available, rich source of OSINT (open-source intelligence) data that is often cited by news media organizations as being representative of the voice of the common man.

But is it really? According to Pew Research Center, of the 22% of adults in the USA who use twitter, the vast majority of tweets come from just 10% of users. In other words, twitter serves as a platform that amplifies the voice of a mere 2.2% of the US population.

Of these 2.2% of users, only 16% approve of Trump, a figure which is at odds with his national approval rating of 43% (29 Jan 2020, fivethirtyeight.com)

This lack of balance presents a challenge to companies seeking to use twitter as a source of customer feedback.



## SEASON 1 A LITTLE LATE WITH LILLY SINGH

#### Critics Consensus

The delightful Lily Singh breathes fresh air into the world of late-night comedy with an energetic new show that's willing to play with the format in ways that will keep viewers looking forward to staying up A Little Late.





TOMATOMETER AUDIENCE SCORE
Critic Ratings: 10 User Ratings: 1644

#### Retten Tomatees



### - DAVE CHAPPELLE: STICKS & -STONES

#### **Critics Consensus**

Edgy, but empty, Sticks and Stones won't break any bones, but it won't elicit many laughs, either.





TOMATOMETER

AUDIENCE SCORE

Total Count: 17 User Ratings: 40,094

- To hear the voice of groups that lack representation on twitter but have a large impact on our company's bottom line.
- In this case, we will examine how we can use machine learning to segment users according to their political leanings, conservative and liberal.
- Once users are divided, we will examine and evaluate the findings of our machine learning model.

# Understanding the subject matter

#### Liberal

- → Judges should push their own agenda
- → More of an internationalist
- → Socialist
- → Non-Christian
- → Want to take away the right to bear arms
- → Discriminatory
- → Pro-choice
- → Big government, high spending, high taxes

#### Conservative

- → Judges should uphold the Constitution
- → Die hard patriot
- → Capitalist
- → Christian
- → Right to bear arms
- → Non-discriminatory
- → Pro-life
- → Reduce the size of government, low taxes, balanced budget

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YES Michelle Williams! Thanks for reinforcing the need to control our own bodies—to a global TV audience. Also you were great in Fosse Verdon (All we'd add is 'when and if' to make it perfect.) #childfreebychoice #mybodymychoice #abortion #goldenglobes #michellewilliams



#MichelleWilliams advocating for Women's Choice was the most graceful & impactful I've heard in years. Her revelation about having an #Abortion was beyond brave. As a man, I found her call for women to vote in their self-interest, AS MEN DO, to be timely, strong and necessary.



#GoldenGlobes

What a speech by #MichelleWilliams! Thank you for being a champion of women, you are an inspiration



Replying to @LilaGraceRose

My son is 8 yrs old and I didn't have to kill him to be a Muslim Reformer.

Taking on the biggest multi-generational crisis of our time — religious extremism — is a hell of a bigger deal than a trophy for dressing up and playing pretend as an actor. #MichelleWilliams #GoldenGlobe

Lisa C @cybermom1999 · Jan 9



#MichelleWilliams seized a national stage and cut through the emotional posturing of abortion advocacy to reveal its hollow, egotistical core. Indeed, her speech was not about rape, the life of the mother, or other seemingly complex circumstances.



Rhiannon Anderson

So grateful to be a woman living during a time in society where women are empowered to murder their unborn child so they can succeed in life. Because Lord knows we aren't able to succeed otherwise because we're so weak-willed and fragile. #GoldenGlobes #MichelleWilliams



Sheila Zilinsky **F** 

It occurred to me she's holding a golden calf (idol) and bragging about the human sacrifice she made to acquire it. #Baal #Molech

#MichelleWilliam

## herese Shechter @TrixieFilms

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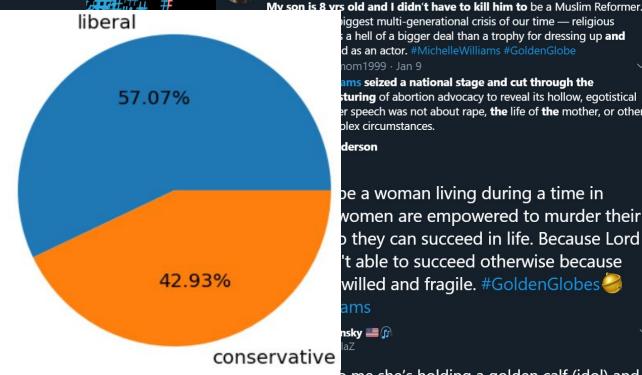


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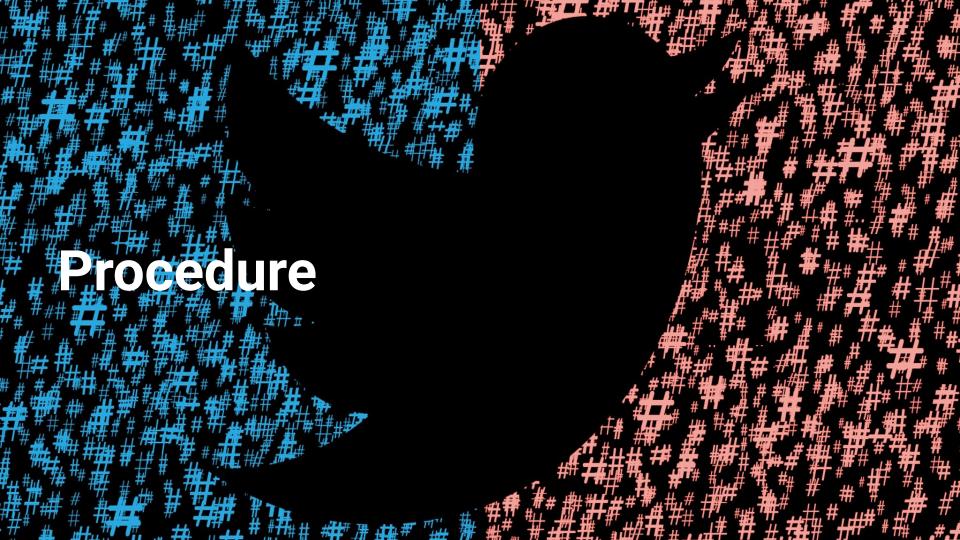


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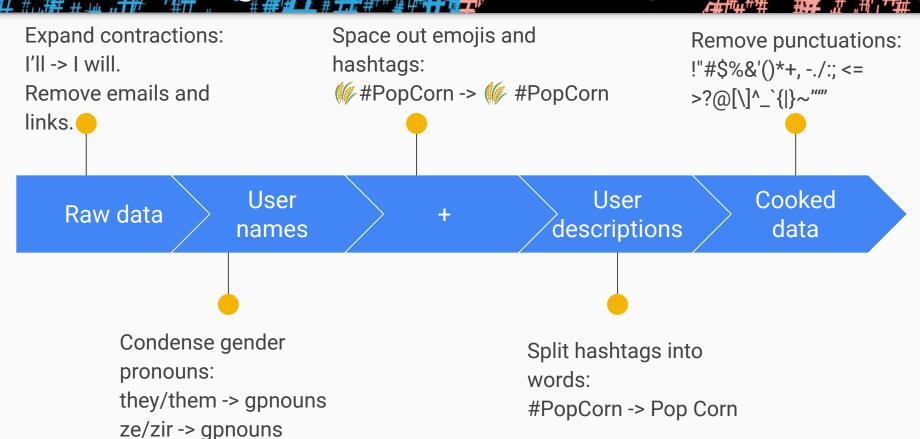
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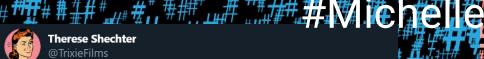
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## Data cleaning





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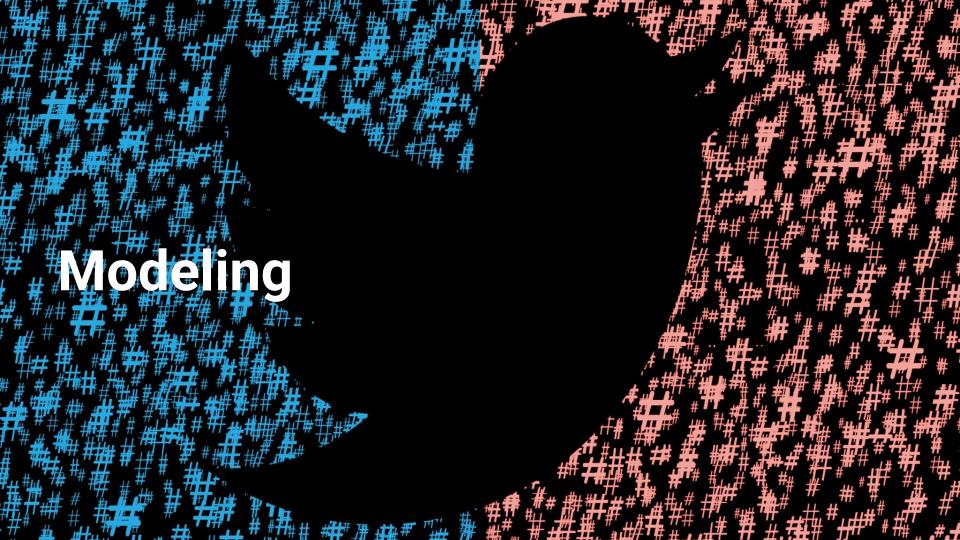
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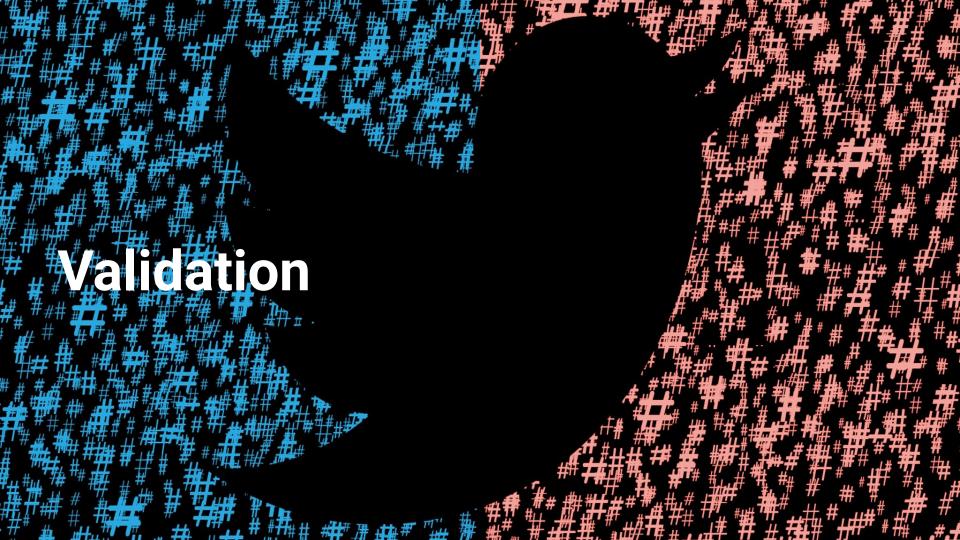
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# #	Precision	Recall	Precision	Recall	Accuracy	*# <b>#</b> ##
Multinomial Naive Bayes	77%	96%	93%	64%	82%	######################################
Complement Naive Bayes	78%	93%	89%	67%	82%	####
Support Vector Machine	75%	97%	95%	60%	81%	# <b>#_#</b> ###
Random Forest	77%	92%	87%	66%	80%	# <b>##</b> #################################
eXtreme Gradient Boost	75%	97%	94%	60%	81%	
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I'm not using TERF anymore because those transphobes are neither radiral p feminists. They use the exact same arguments as old white men and do deserve special status.

They, and this includes @jk rowling, are bigots, transphobes, and hatemongerers. Fuck them all

Bethany Shoreditch @BethanySpeaking · 19 Dec 2019

gender at birth. When will @jk rowling understand this?

#CancelJKRowling #JkRowlingIsOverParty #JKRowlingIsATerf



SuzyQ @S

rooms are now open to the male public. No one should lose their job for stating the obvious.

Replying to @glaad @jk\_rowling

Replying to @XRufio @ForwomenScot and 2 others

Who the heck are you hanging out with? Every lesbian I know is concerned about the erasure of sex-based rights and women's spaces, or being accused of being transphobic if they aren't attracted to someone with a penis if they 'identify' as a woman.

Lesbian Conservative @lesbianoutsider · 19 Dec 2019

Anti-science & not a threat to women. So you admit that 'trans women' are not

Women's sports are being destroyed by these men. Women's bathrooms & locker



Rachel Young @meatbeagle · 19 Dec 2019

Replying to @ik rowling

You are a human starting pistol. The harm and abuse you stirred up today has created indelible scars for many and this will cost lives as tens of thousands of oppressed people who have taken small comfort in your work confront your hatred. Shame on you. I thought you were better.

I REALLY can't with @jk\_rowling and her TERF transphobic views, I know we are

Science is a transphobe's dog whistle. Sex has absolutely nothing to do with so-

called "chromosomes" or genitalia. Doctors literally randomly assign sex and



lease.

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enting add

Replying to @jk\_rowling

#IStandWithMaya #ThisIsNotADrill I'm about as liberal as any other but this whole "choose your gender" crap is way beyond stupid and nauseous. Define yourself as you wish but not everyone in a free society should ever be held accountable in Law for your choices.

paul c @waster19teen76 · 19 Dec 2019

Reggie Mcleod @mcleod303 · 20 Dec 2019

Replying to @neutralmilkscot @jk\_rowling

JK Rowling well done for having the courage to say what the overwhelming Majority are thinking.

#IStandWithJKRowling



#TransRightsAreHumanRights



get it. 💔

Kermit @HombreDeFlorida · 19 Dec 2019

Now that @jk\_rowling has come out as a TERF, she's decded to make some big announcements about the Harry Potter franchise; all of the characters vote Conservative, and Hermione is a Boris Johnson supporter. Also, Newt Scamander wanted Britain to remain neutral during World War 2



Replying to @juzz\_18 @JuliaHB1 and 2 others

People denying that fact that there are only two sexes.

Male and female. You can identify as a tree, you're still either male or female.

EvelynWinters DEBoosted @EveleenWinters · 19 Dec 2019

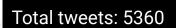
There is outcry because jk agrees with science. Women are being called transphobic, for pointing out a trans woman is still biologically Male.



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They, and this includes @jk rowling, are bigots, transphobes, and hatemongerers. Fuck them all

Bethany Shoreditch @BethanySpeaking · 19 Dec 2019



Total labeled: 1032 Total liberal: 948 Total conservative: 85



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Eric Priuska @ @EricPriuska · 19 Dec 2019

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Total tweets: 5360

Total labeled: 1032 Total liberal: 948 Total conservative: 85

Additional conservatives: 84

Remove duplicate users: -169

Final dataset: 781/166

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G. K. Chesterton

"We shall soon be in a world in which a man may be howled down for saying that two and two make four, in which people will persecute the heresy of calling a triangle a three-sided figure, and hang a man for maddening a mob with the news that grass is green."

—G. K. Chesterton

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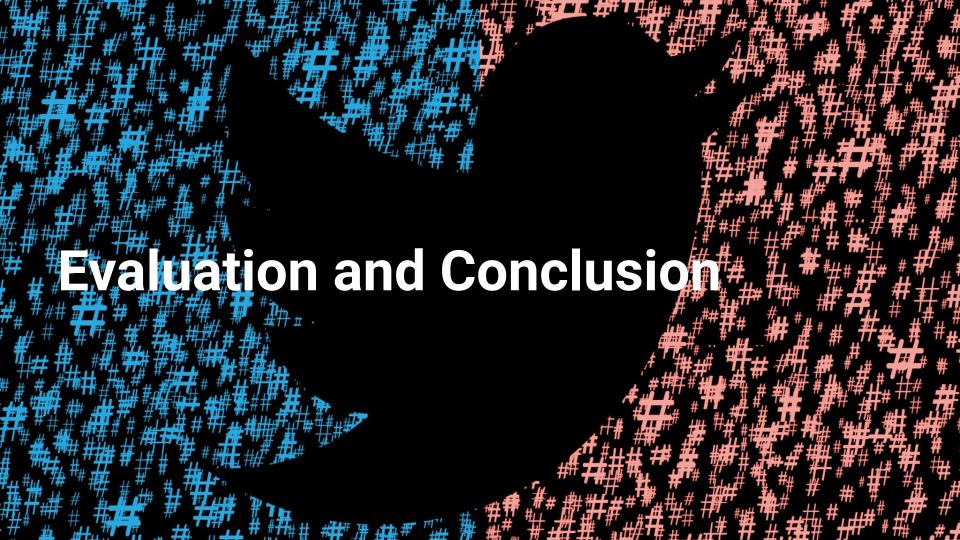
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#### resist maga resistance conservative christian instagram catholic democracy democrat jesus fbr patriot concerned god impeach kag blue equality married passionate wwg1wga pro life resister government russian trump -0.50-0.250.00

- The model proved to be reasonably accurate in predicting a person's political leaning using their description and user name, with an accuracy of over 80% on the test and validation datasets.
- As the goal here to amplify the voice of a twitter minority, models with high precision on the minority group are preferred.
- However, many of the features the model used to predict a person's political leaning are mainly applicable to the USA, showing that the model ought to be trained on more diverse datasets.
- The approach to gathering data and solving this problem can be applied to similar issues, such
  as trying to deduce the sex of a twitter user, and multiple models can be stacked to identify more
  niche groups. For instance, if one wants to know what conservative + women think.

