

Am I the Asshole?

An important question turned into a data science project.

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Remember that argument you had the other day?



Except... you *did* raise your voice and say some hurtful words...

But whatever— they were an asshole! Not you!



Yeah, *they* were the ones who messed up. Not you!

You did everything right. It's their fault!



Are you sure?

Yes

No

r/AmITheAsshole

- r/AmITheAsshole is a popular subreddit where you can post about a conflict (giving both sides of the story)
- Fellow Redditors will determine your judgement with the following votes:
 - Not the asshole (NTA)
 - You're the asshole (YTA)
 - Nobody is an asshole (NAH)
 - Everyone sucks/Everyone is an asshole (ESH)
- After 18 hours, moderator bots go through the comments and tally up the votes.
- The verdict is declared by the majority vote.

What Data Can We Collect?

- I took posts from the last 5 years and collected the following features:
 - The title/post content
 - The judgement (YTA, NTA, ESH, NAH)
 - Number of upvotes/downvotes
 - Number of comments
 - Number of awards

Usage/Applications

- Using ML to detect assholes
 - By inputting a scenario, the algorithm will output the person who is in the wrong.
 - You could make it an app. Great for people who overthink things!
- Analyzing human thinking/behavior
 - Researchers could look at the different scenarios and their verdicts to understand how humans judge scenarios
 - Not only who is considered an asshole, but why? What about the situation makes them an asshole?
 - Do certain type of relationships (spouses, tenant/landlord) have more conflict?

Distribution/Access

- To use Reddit's API, you need to create an app as a developer to get access keys
- Since this app is registered as a personal script, I didn't package up the code for distribution
- Reddit owns the data so if I were to create something with the data (e.g. an app that tells you if you're an asshole) I would need to get approval from Reddit.

Acquiring the Data

1. First, I was naïve and used BeautifulSoup to scrape the post links on the subreddit.
2. Then I used PRAW (The Python Reddit API Wrapper) to obtain features for each post.
 - I ended up with **only 400 posts**.
3. So I went back and used PRAW instead of Beautiful Soup to get post links.
 - This gave me **800 posts!**
 - But I was getting greedy and flew closer the sun.
4. I used pushshift.io to get post IDs between 01/01/15-11/01/20
 - This gave me **over 700,000 posts**– NOW we are talking!!!
5. However, collecting features for the posts uncovered a big problem.
 - Getting features for 700,000 posts would've taken my computer ~6 days to run
 - Therefore, I **reduced the number of posts to 70,000**
 - However, my computer had an issue and **ended up only saving 114 posts** :(

Cleaning the Data

- Posts were removed on the following conditions:
 - The post was deleted/removed/empty
 - There is no verdict
- There were also some minor renaming
 - Ex: not the asshole = not the a-hole = NTA
- Edited posts need to be dealt with
 - The author can edit their post with an update like “EDIT: yeah I was being an a-hole”
 - I found out after that you can filter edited posts out when collecting the links in PRAW
- I ended up with 1026 posts between the years 2015-2020.

This post on Reddit →

↑
898
↓

Posted by u/Resident_Ad7633 28 days ago

AITA (48f) for moving states and making my daughter(20f) find her own housing for college

Asshole

My husband and I have lived in California for most of our lives. We've been talking about moving out of the state for a couple years now due to a host of reasons like the traffic, high taxes, and the homelessness issues here (I don't feel safe going out at night by myself sometimes). However, my husband and I both make insanely good salaries here and we didn't want our daughter to move highschools halfway through, so we decided to wait until she started college and we found the right opportunity elsewhere before we moved.

My husband ended up getting an amazing position high up in a company headquartered in Texas and we told our daughter we would be moving there in a month. We've been looking for the perfect opportunity like this for the last two years, so we wanted to make this happen as soon as possible. My daughter was well aware that we had plans to move out of the state after she graduated but was furious with us when we told her. She's been living at home instead of dorms to save money since her tuition is already so high. We told her that she could stay in the house until the end of the year till she could figure out alternative living arrangements, but we would be selling it early next year so that we can buy a new house in Texas. We've suggested she try switching to community college, taking out loans to help cover her dorm costs, or doing college part time and working part time to afford rent but she won't listen to reason and has been arguing with us nonstop about our move for the last week.

AITA?

343 Comments

Give Award

Share

Save

Hide

Report

88% Upvoted

Looks like this in the data ↓

Judgement	Title	Content	Date	Link	numComments	numUpvotes	upvoteRatio	numAwards
YTA	AITA (48f) for moving states and making my dau...	My husband and I have lived in California for ...	2020-11-04 13:29:57	https://www.reddit.com/r/AmltheAsshole/comment...	343	905	0.88	1

Issues and Limitations

- Lost track of the big picture
 - I was so fixated on getting more post links
 - So I didn't think about how long it would take to process the links
 - This resulted in overwhelming my computer (and myself)
- Too much data for my little computer
 - This limited the number of features I could include.
 - Ex: I wanted to tally up the votes to see how close the margins are each verdict but there are thousands of comments for the thousands of posts days.

Additional Considerations

- There is additional data we can get from this
 - Demographics –e.g. 22F
 - Relationships- e.g. Tenant/landlord
- This data is biased—take it with a grain of salt
 - Based on opinions from strangers on the internet.
- There is no way to assure the validity of the posts
 - Did that conflict *really* happen? Or did the OP make it up? Does it matter if it's made up?

The Team Behind The Project

Team Member:

1. Cassie

Contributions:

- Spent time on Reddit aka "researching"
- Wrote the code
- Made all the mistakes
- Fixed most of the mistakes

Thank you!