



### Motivation.

#### **User Preference [fresh]**

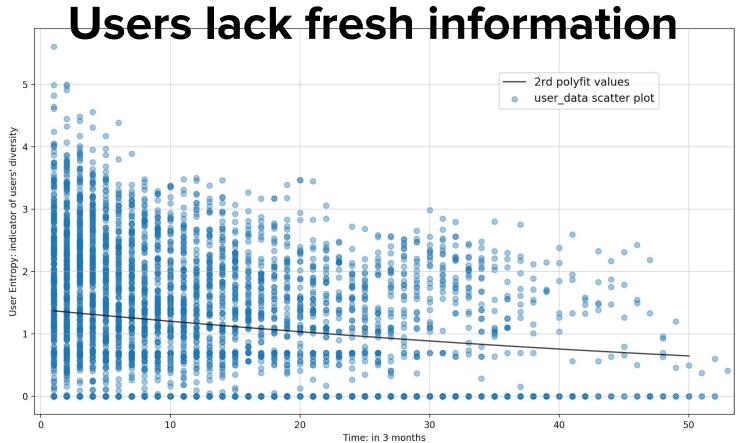
#### Chamber of users' own opinion

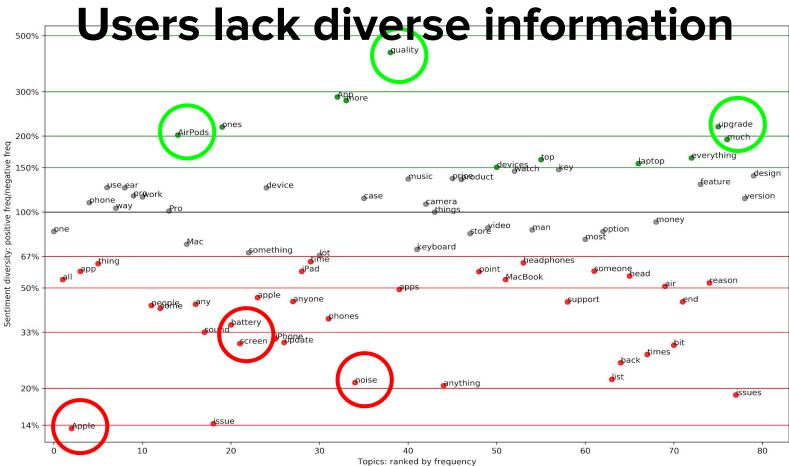
- People seek information that reinforces their existing views
- People have limited amount of attention

#### **Platform Curation [diverse]**

#### Chamber of majority people's opinion

- Post ranking is based on upvote and downvote
- Post ranking is based on subreddit rules





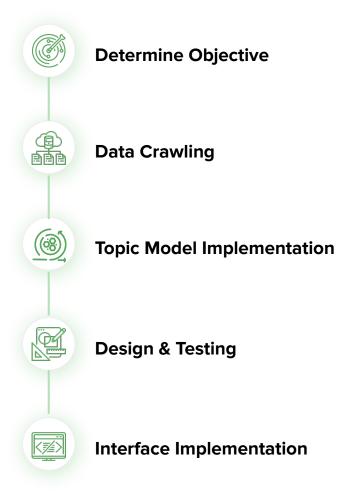
### Goals.

Help users understand more <u>fresh</u> & <u>diverse</u> information.

#### We want to provide

- fresh topics
- fresh posts
- diverse topics
- diverse posts









Competitive Analysis User Interview

### Methods.





#### **Determine Objective**

#### **Data Crawling**

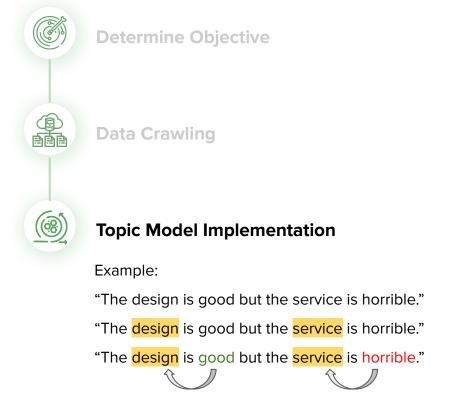
- Post Dataset (processed):

/r/SelfDrivingCars: 210 high-quality posts from 1000 posts /r/apple: 320 high-quality posts from 1000 posts

- User Dataset:

360 users with average active user history around 2 years (longest: ~12 years)









Brainstorming
Concept design
Task based comparable user testing
Design iteration







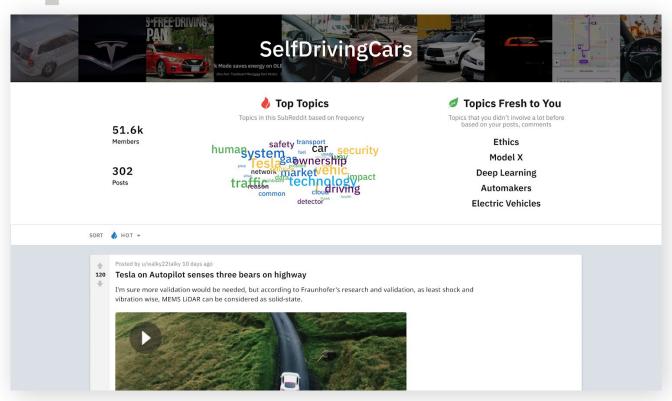
# Design Outcome.

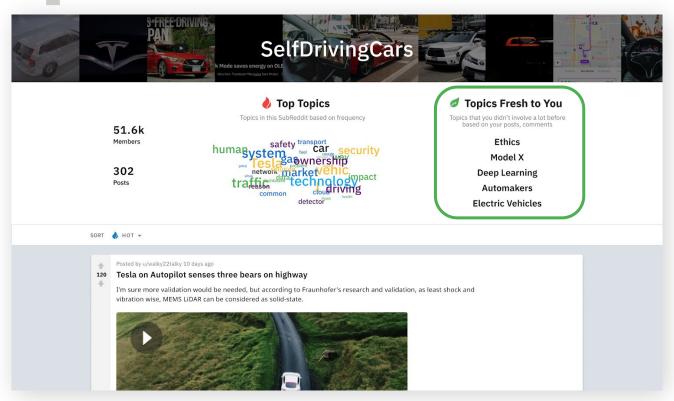
#### **Get something fresh**

Break the chamber of users' own opinion

**Get diverse opinions** 

Break the chamber of majority people's opinion



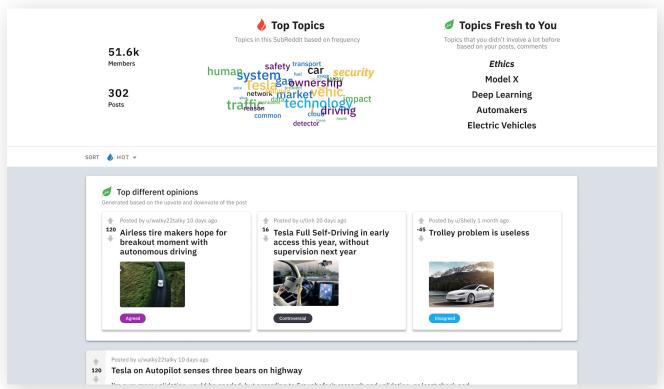


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187	Posted by u/bradtem 8 months ago  Ethics professors solve the "Trolley Problem" by debating whether to kill one or five. Engineers solve it by fixing the brakes on the Trolley. forbes.com/sites/  145 Comments  Give Award  Share  Save
<b>↑</b> 39 <b>↓</b>	Posted by u/irvdrive 2 years ago  Robot Cars And Fake Ethical Dilemmas. Is the Trolley Problem a hyperbole and a distraction?  I like how the author shows that this hyperbolic trolley problem talk is overshadowing the real, far more subtle and interesting ethical issues posed by SDCs.

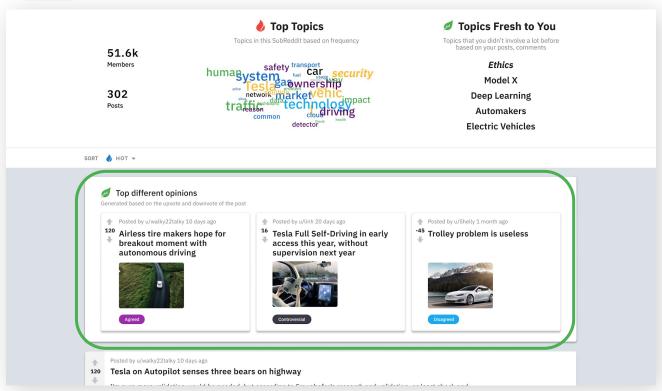
80	Posted by u/walky22talky10 days ago  Airless tire makers hope for breakout moment with autonomous driving  I'm sure more validation would be needed, but according to Fraunhofer's research and validation, as least shock and vibration wise, MEMS LIDAR can be considered as solid-state.
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187 #	Posted by u/bradtem 8 months ago  Ethics professors solve the "Trolley Problem" by debating whether to kill one or five. Engineers solve it by fixing the brakes on the Trolley.  forbes.com/sites/
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	■ 31 Comments ② Give Award > Share 및 Save ・・・

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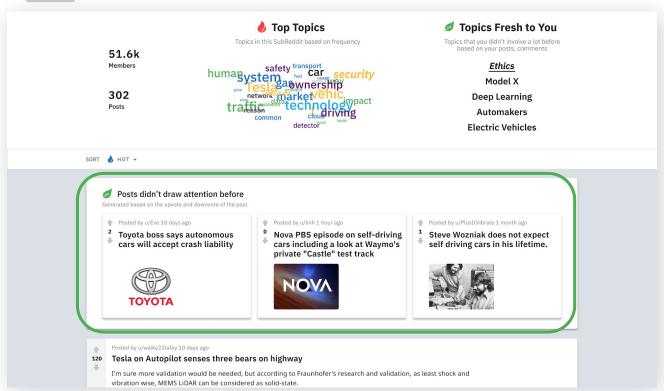




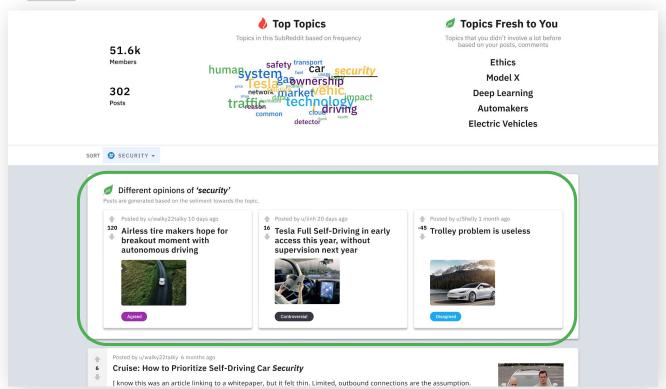














### Prototype Showcase.

# What we've learned.

Entity sentiment analysis is difficult and still has limitations

Make sure the problem / objective is what we need to solve instead of what we want to solve

# Future work.

Better targeted sentiment analysis model.

Fresh subreddits recommendation.

Extend our idea to other social media platforms.

