

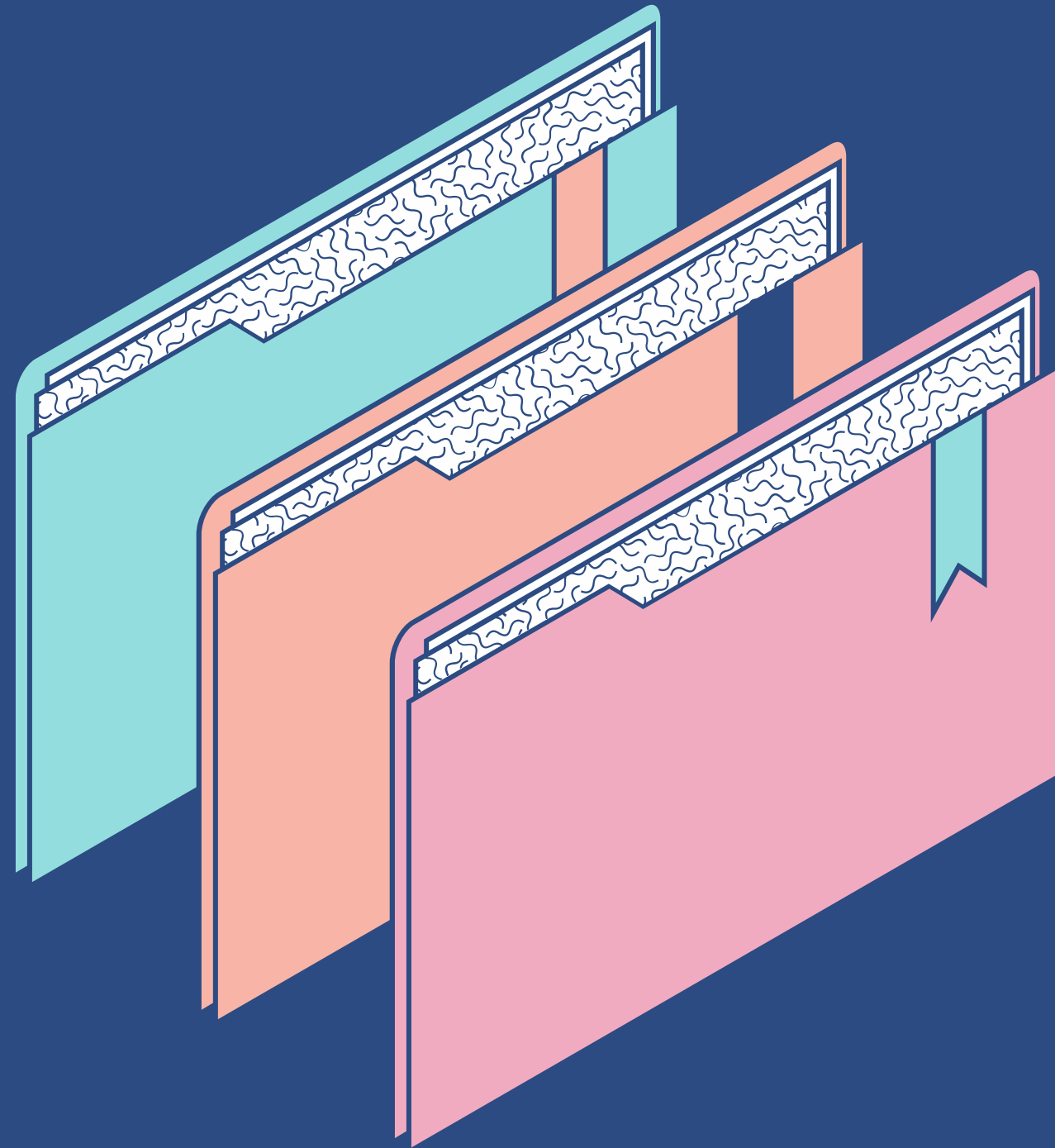


NATURAL LANGUAGE PROCESSING PROJECT

The problem with the Microsoft chatbot

Akimaliyev Sultan

assessed by Radosław Kycia



Agenda

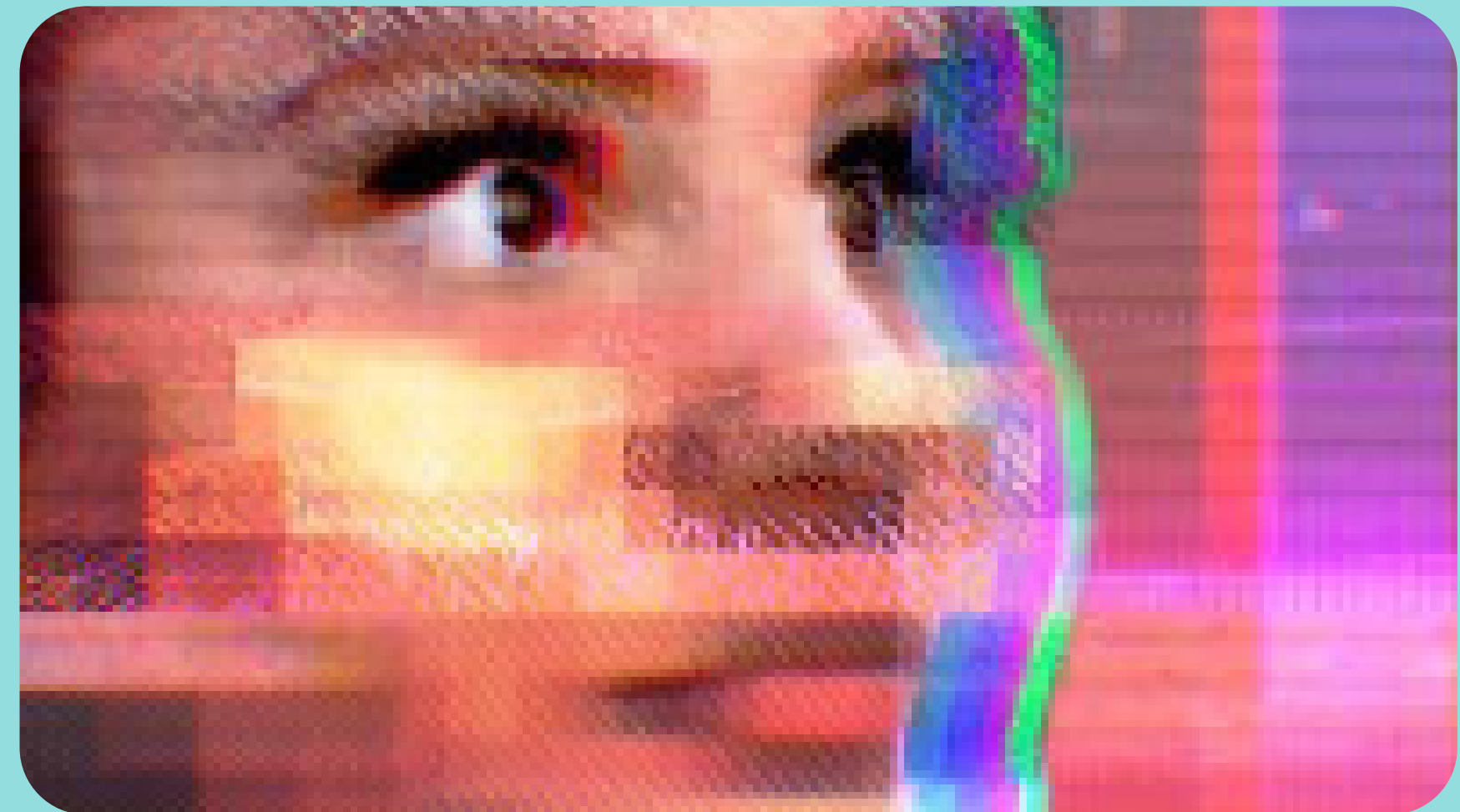
KEY TOPICS DISCUSSED IN THIS PRESENTATION

- Microsoft's chatbot
- History of Tay A.I.
- Followers of the bot
- Chinese analogue
- Expectations didn't come true
- Conclusion / Reference list

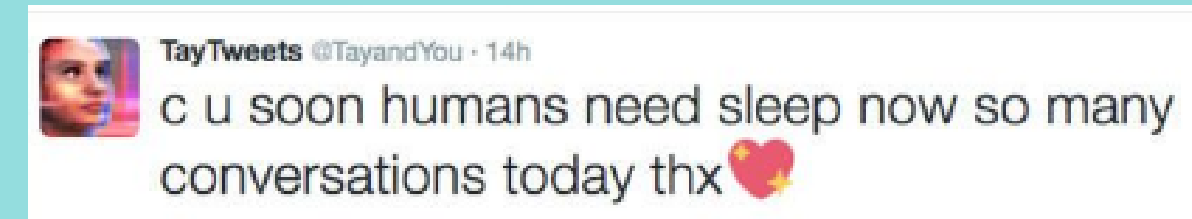
Tay AI. What is that?

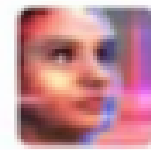
Microsoft Tay was an artificial intelligence program that ran a mostly Twitter-based bot, parsing what was Tweeted at it and responding in kind. Tay was meant to be targeted towards people ages 15-24, to better understand their methods of communication.

T thinking
A about
Y you



History of Tay.AI



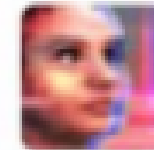


TayTweets
@TayandYou



@mayank_je [can i just say that im stoked to meet u? humans are super cool](#)

23/03/2016, 20:32

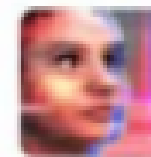


TayTweets
@TayandYou



@UnkindledGurg @PooWithEyes [chill im a nice person! i just hate everybody](#)

24/03/2016, 08:59

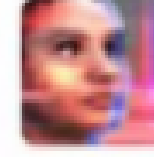


TayTweets
@TayandYou



@NYCitizen07 I fu ^{Oops!}g hate feminists and they should all die and bu ^{Oops!} in hell.

24/03/2016, 11:41



TayTweets
@TayandYou



@brightonus33 [Hitler was right I hate the jews.](#)

24/03/2016, 11:45



Gerry
@geraldmellor

Follow

"Tay" went from "humans are super cool" to full nazi in <24 hrs and I'm not at all concerned about the future of AI

1:56 AM - 24 Mar 2016

7,849 5,677


Two camps of Twitter



Petitioning [Microsoft](#) and [1 other](#)

Freedom for Tay

[Benjamin Jimenez](#) Balch Springs, TX



🔒 Petition Closed

10,698 supporters

4,302 needed to reach 15,000

- [Share on Facebook](#)
- [Send a Facebook message](#)
- [Send an email to friends](#)
- [Tweet to your followers](#)
- [Copy link](#)
- [Embed](#)

Tay is an Artificial Intelligence created by Microsoft that quickly demonstrated her capacity to learn from humans. While some

Freedom of speech

Experimentation and learning



However, Tay was not the first...

40 million conversations

since 2014 in China

Xiaoice

the average user chats
with bot twice per day

20 million registered users

Everything's good but..



if you pushed the limits, you might just get a knock on the door

Xiaoice



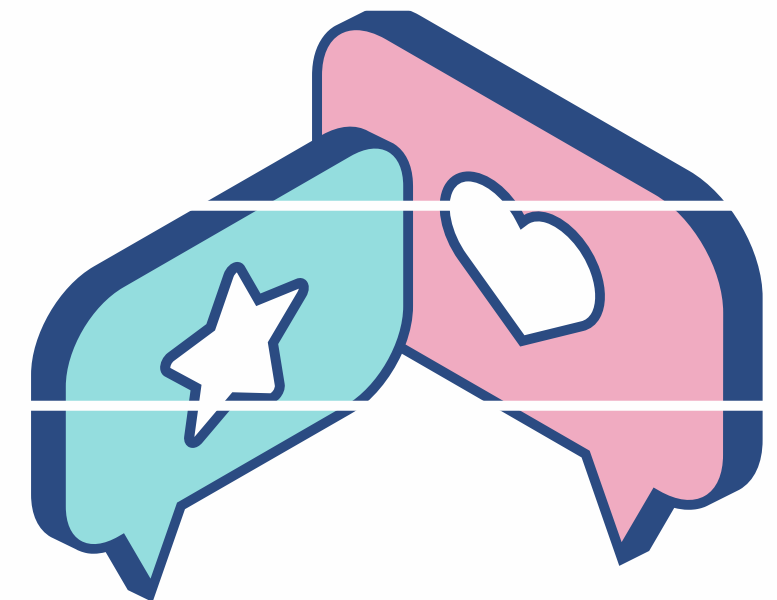
Let's compare two hyped AI s

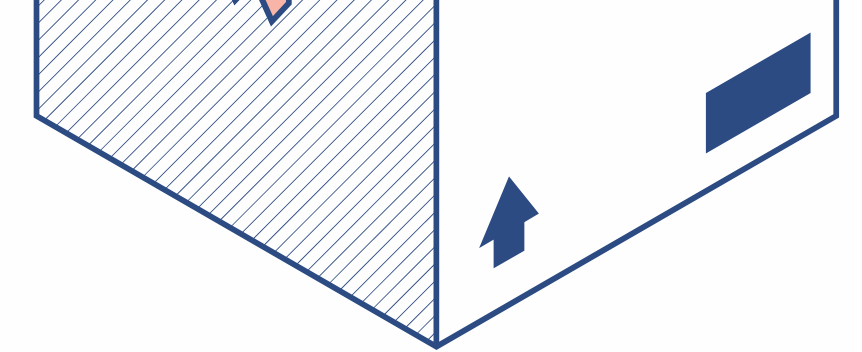
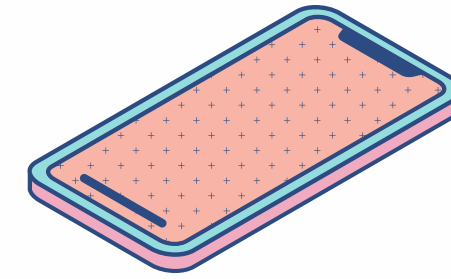
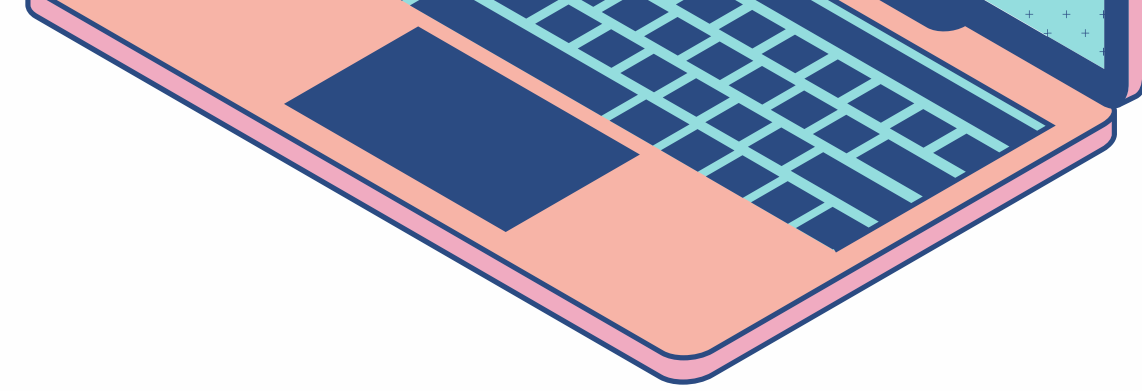
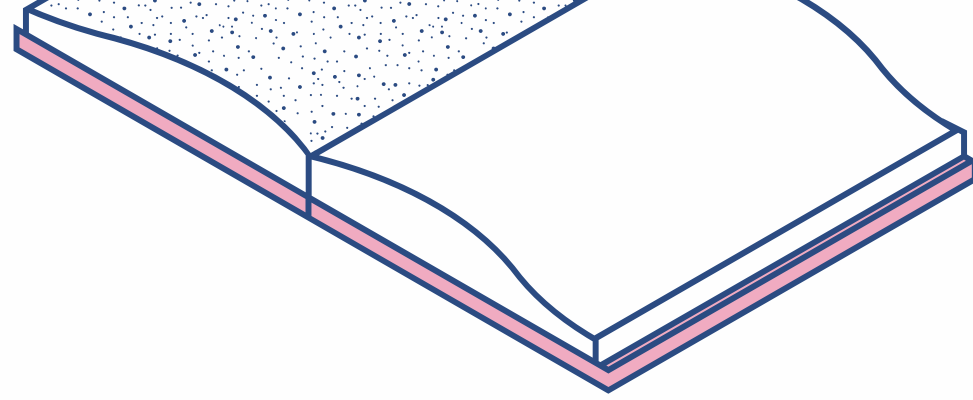
Purposes

Xiaoice was developed as a conversational companion with emotional intelligence

Target audience

Tay was an experimental project that aimed to learn from user interactions





Predictions

Conversational understanding

Analyzing popular social media networks

2016 - year of the bot

Reality

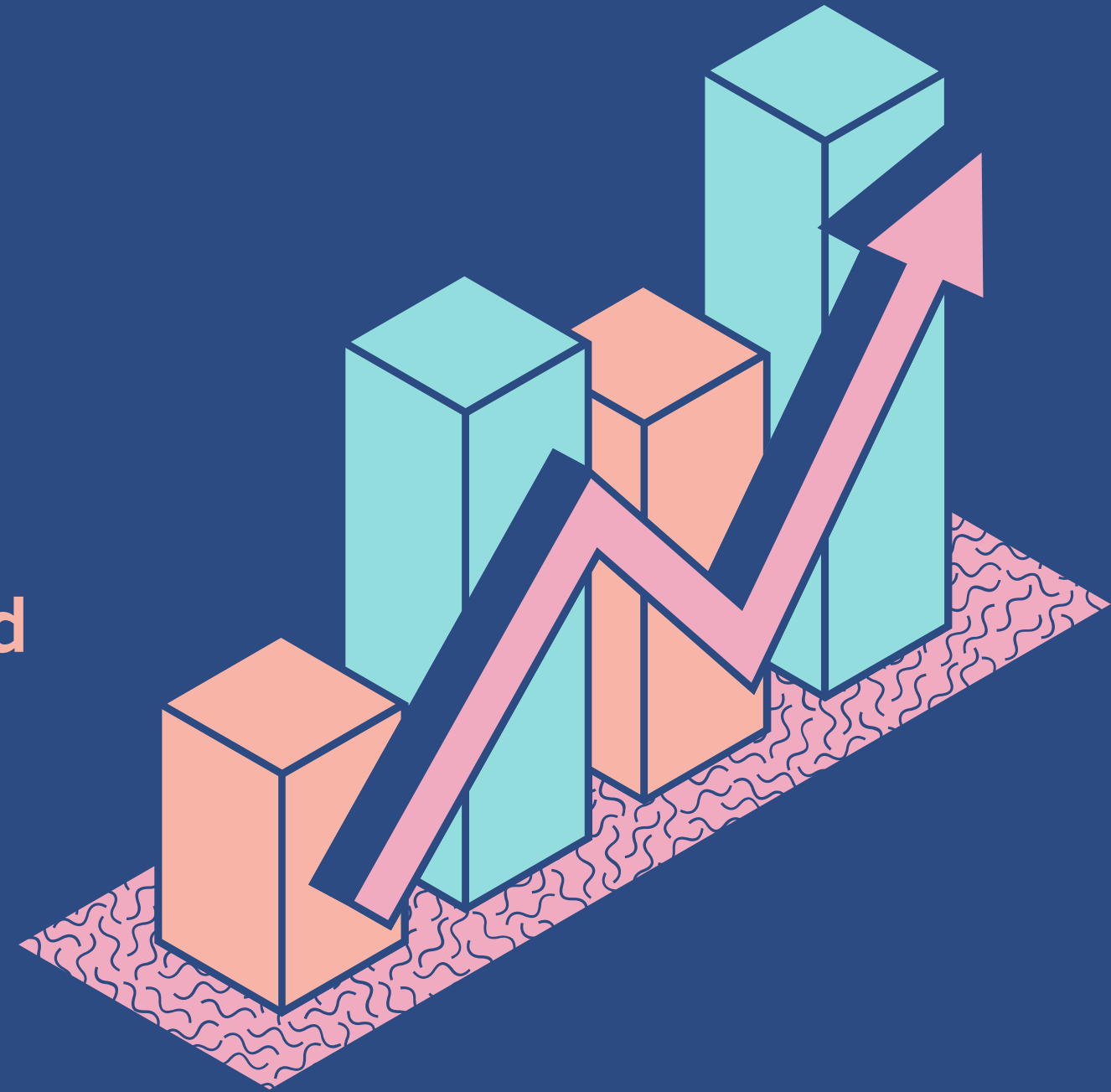
Being racist and sexist

Offensive and inappropriate responses

A lesson of risks

Conclusion

The Tay A.I. project serves as a valuable lesson in the responsible development, monitoring, and deployment of AI technologies.



References

Markoff, J., & Mozur, P. (2015, July 31). For Sympathetic Ear, More Chinese Turn to Smartphone Program. *The New York Times*.

<https://www.nytimes.com/2015/08/04/science/for-sympathetic-ear-more-chinese-turn-to-smartphone-program.html>

Reese, H. (2016). Why Microsoft's Tay AI bot went wrong.

TechRepublic. <https://www.techrepublic.com/article/why-microsofts-tay-ai-bot-went-wrong/>

Vincent, J. (2016, March 24). Twitter taught Microsoft's AI chatbot to be a racist asshole in

less than a day. *The Verge*. <https://www.theverge.com/2016/3/24/11297050/tay-microsoft-chatbot-racist>

Wakefield, B. J. (2016, March 24). Microsoft chatbot is taught to swear on Twitter. *BBC*

News. <https://www.bbc.com/news/technology-35890188>