Nailed it.

What is wrong with him?!

Give me your

HOT TAKE

Applied Deepling for NLP WS 20/21
Maja & Andy

We've built an **Alexa skill** that comments on any given **news headline** based on information that we gathered from **reddit**.

DATA
ACQUISITION

DATA
PREPROCESSING

DL MODEL
TRAINING

API &
DEPLOYMENT

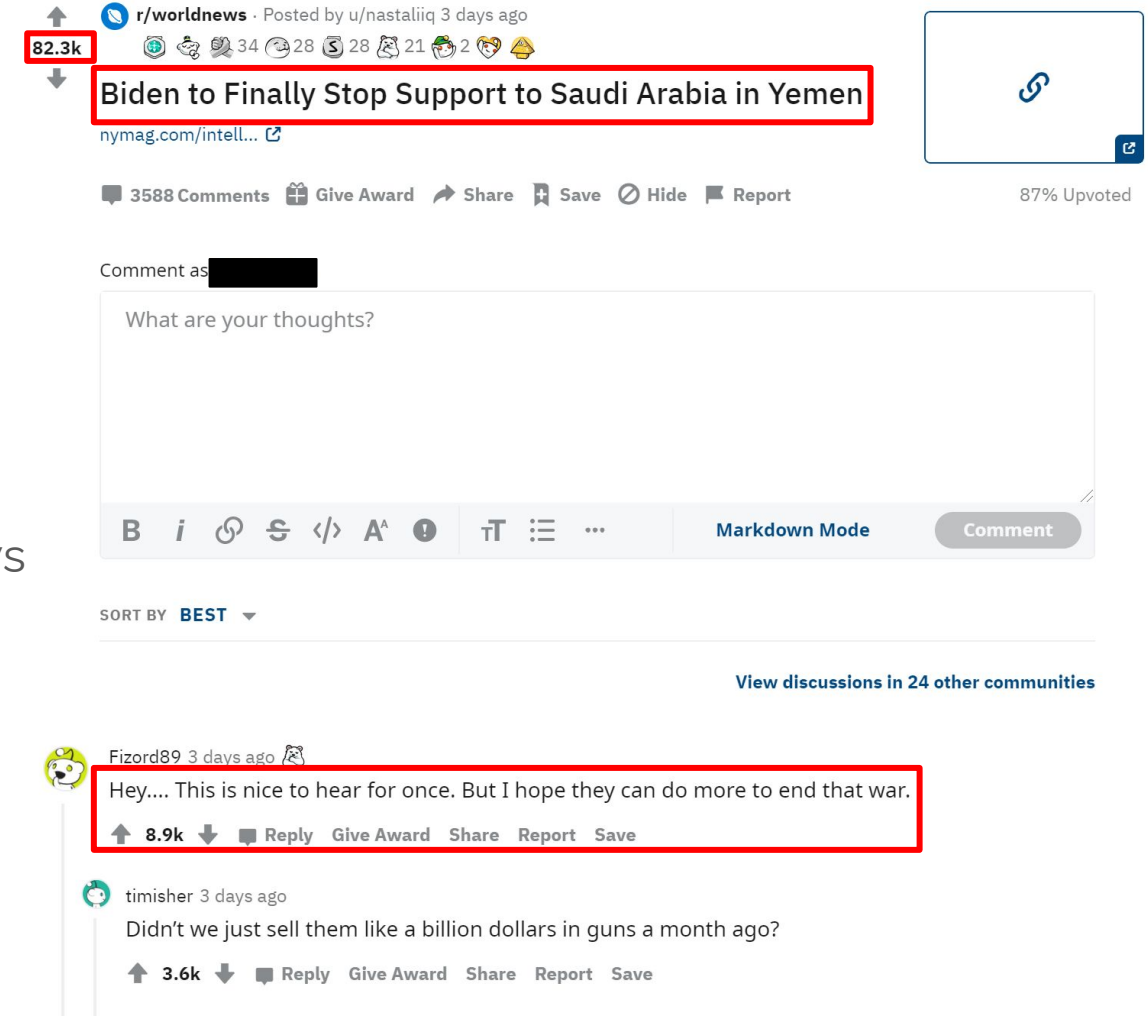
DATA **ACQUISITION**

Two APIs:

PRAW and pushshift.io

Subreddits: worldnews, news, politics, upliftingnews, truenews

40.000 posts and 270.000 comments over ~ 3 years



DATA **PREPROCESSING**

Filtering

- Negative scores
- Keywords (e.g. deleted or tl;dr)
- Preprocessing

One headline = One sentence of a comment

```
<start> sugarcane juice declared as the national drink of pakistan <end>

<start> this reminds me of the updates you get in the late game of civilizations vi . <end>
```

DL MODEL **TRAINING**

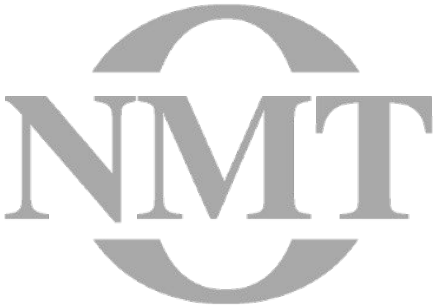
Translation Task

Classical Transformer architecture

3 different models

1. 50k comment model 👎🏽
2. 200k comment model 👎🏽
3. OpenNMT model ✌🏽

Training Time: approx. 8h



SAMPLES

```
  return comment_tokenizer.sequences_to_texts(output.numpy())[0]
translate("I love you")
```

```
'<start> i ve spent quite a bit of my massive pile of shit about microplastics trust general piss ever .'
```

50k comments model

```
ator --headline "China is making plans"
   i m sure that the us is a good thing
```

200k comments model

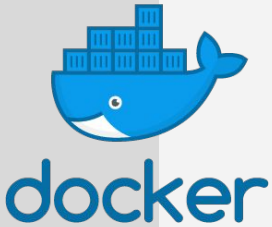
API & **Deployment**

Server

Backend

FastAPI

SERVING



docker

aws

amazon alexa

Thank you for listening to our

HOT TAKE