





Give me your
HOT TAKE



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

The screenshot shows a Reddit interface for the subreddit r/worldnews. The main post is titled "Biden to Finally Stop Support to Saudi Arabia in Yemen" and has 82.3k upvotes. Below the post title, there are options to comment, give awards, share, save, hide, and report. A comment by user Fizard89 is highlighted with a red box. The comment text is "Hey.... This is nice to hear for once. But I hope they can do more to end that war." and it has 8.9k upvotes. Below this comment, there is another comment by user timisher with the text "Didn't we just sell them like a billion dollars in guns a month ago?" and 3.6k upvotes. The interface also shows a "SORT BY BEST" dropdown and a link to "View discussions in 24 other communities".

↑ 82.3k ↓

r/worldnews · Posted by u/nastaliq 3 days ago

34 28 28 21 2

Biden to Finally Stop Support to Saudi Arabia in Yemen

nymag.com/intell...

3588 Comments Give Award Share Save Hide Report

Comment as [REDACTED]

What are your thoughts?

B i ↻ ⌂ </> A ! T ☰ ... Markdown Mode Comment

SORT BY BEST

View discussions in 24 other communities

Fizard89 3 days ago

Hey.... This is nice to hear for once. But I hope they can do more to end that war.

↑ 8.9k ↓ Reply Give Award Share Report Save

timisher 3 days ago

Didn't we just sell them like a billion dollars in guns a month ago?

↑ 3.6k ↓ Reply Give Award Share Report Save

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

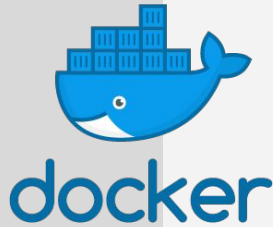
API & Deployment

Server

Backend



SERVING





Thank you for listening to our

HOT TAKE