Last Modified: 24 Apr 2021 https://github.com/vicw0ng-hk/fake-real-new

fake-real-news: A News Classifier in the Fight against Disinformation Final Report

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For better reading experience, we have more information documented in our GitHub Repo in Markdown. This report is minimal. Please go to https://github.com/vicw0ng-hk/fake-real-news for README.md, METHOD.md, FUNCTION.md and test.ipynb and more.

Highlights

- We downloaded dataset from GitHub and conducted cleaning to make sure that the dataset we use for training contains and only contains rows that fits the criteria for training.
- We used a two-step approach to train our model. First, we trained a language model on the text using AWD-LSTM; then we added types to the training and produced a classifier model.
- We exported the model and built a web app on it. We also implemented a feedback mechanism and provided guidelines on continued model training.

Achievements

First, we conducted data engineering.

We first downloaded the dataset from GitHub, which is a huge file compressed in several zip multi-volume archive data. We first tried to use pandas to process the data, but failed. The data was so large, even the RAM allocated by GPU Farm wasn't enough. We then switched to use Dask because of its out-of-core characteristics. Since Dask is not compatible with some of the libraries we will use later, we saved the data into hundreds of smaller files, while deleting error lines.

We then used pandas to delete rows without any content and invalid types.

Then we started to train a language model.

After cleaning our data, we fed the content column in the dataset into fastai's TextBlock, which handles tokenization and numericalization automatically when passed to DataBlock. By doing so, we also set the splitter function, which help us split the dataset into training set and validation set. After passed on to DataBlock, we turn it into dataloaders.

And then we used fastai's language_model_leaner to feed the data into the model and started training. After some time of training, we have a somewhat satisfactory result. We then saved the encoder.

We then started to train the classifier model.

The procedure is quite similar to the language model training, except we would also feed the corresponding categories into the learner. During training, we would also try to freeze certain number of layers to try to increase accuracy. After some time of training, we exported the model into a pickled file.

We then use the exported model to build a web app.

We used the minimal Flask web framework with some web programming technology such as jinja, jQuery, Bootstrap, CSRF Protection and database SQLite3. We also provided guidelines on continued model training.

Model Evaluation

We tested our model on several of the data files we saved in our data engineering step. The resulting accuracies vary by a lot from 30% to 98%. The model certainly could be further trained, but text model training requires a large amount of time and resources, and our dataset is extremely large. So, it's the kind of time and resources we simply did not have, even with quota provided by GPU Farm.

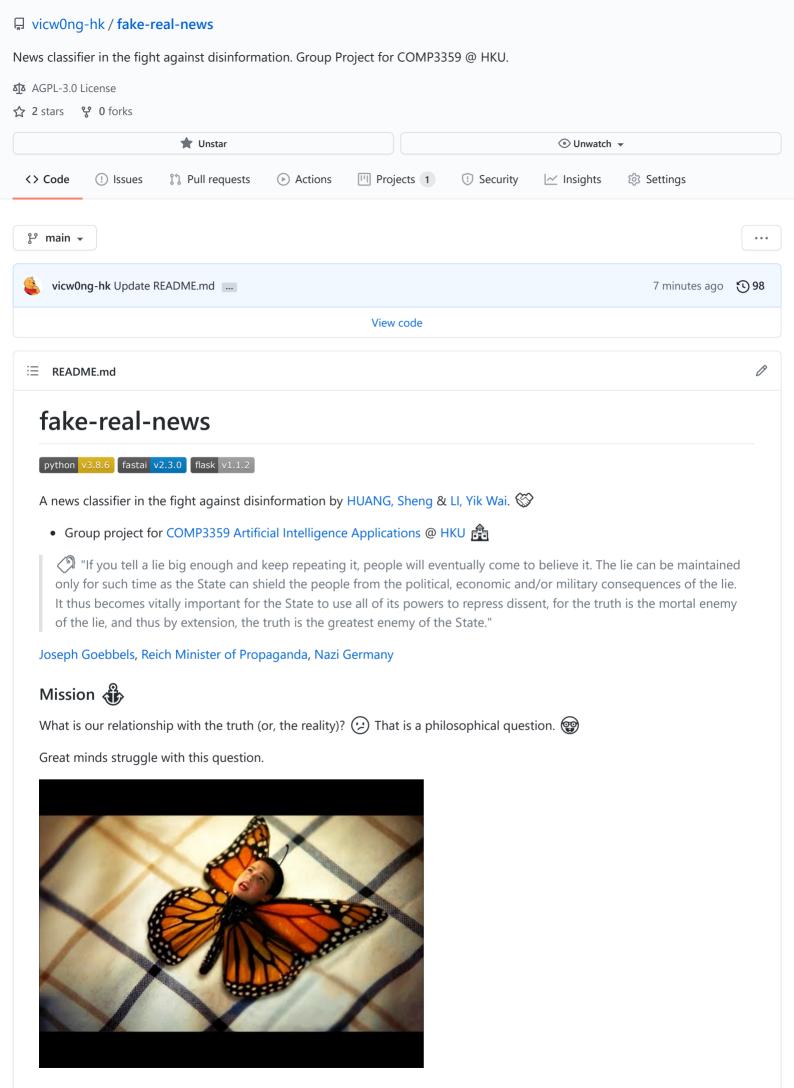
Another issue is that the dataset is a single-labeled one. See more in Limitations.

Limitations

The dataset we have is a single-label dataset. But this is not in accord with the reality. For example, many conspiracies are highly political, hence a lot of the articles with the conspiracy tag may also fit into the political tag. Hence, by this feature of the dataset, accuracy of training has not been very high for some of the test cases. And it is susceptible to overfitting if we train too much for higher accuracy, which is why we chose to present the predictions in the app by probabilities.

Also, the machine does not have the knowledge of common sense and general knowledge of society as humans, so some apparent signs may escape the model.

Of course, there is the time and resources problem we discussed in the previous segment. The RAM and GPU power provided cannot support our huge dataset in one go, so we had to separate into batches. More resources may improve the model's training performance.



Young Sheldon Cooper struggled with this problem and wanted to switch major to philosophy. But in the end, he returned to science when he realized physics theories could explain more patterns in nature.



As fake news spreads wildly today, we have been in a similar crisis. With so much information, how can you tell what is real and what is not? Especially, with the cost of reading a news article so low and the cost of verifying the facts so high, how can anyone make judgments on the authenticity of the news content? Some may say nothing is real and lead a life without any thoughts on the world. Some may say they trust authoritative sources. But how do you define authoritative source? Is everything put out by these authoritative sources guaranteed to be true? Can we find patterns on these articles, also taking into account its sources, and then make a better judgment, or a more educated guess?

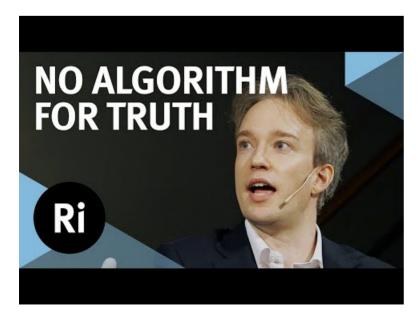
Indeed we CAN find linguistic patterns in news articles. These patterns may well have correlations to the realness or fakeness of these articles. But it's not that simple. Remember that news media have biases. For example, in the United States, conservative media such as Fox News and liberal news media such as MSNBC and CNN have different styles when reporting news , but that doesn't automatically mean that one style is equal to fake news reporting. (Check out Media Biad Ratings) To avoid such biases when training our model, we recognize news articles that cannot be easily categorized as real or fake, such as pieces that are strong in opinions. (Check out the types we have here)

We concede that this approach is still flawed, which will be discussed in Limitations.

However, it can give us somewhat of a reference when we are judging the authenticity of an article, as we have given explicit descriptions on how we categorize the articles.

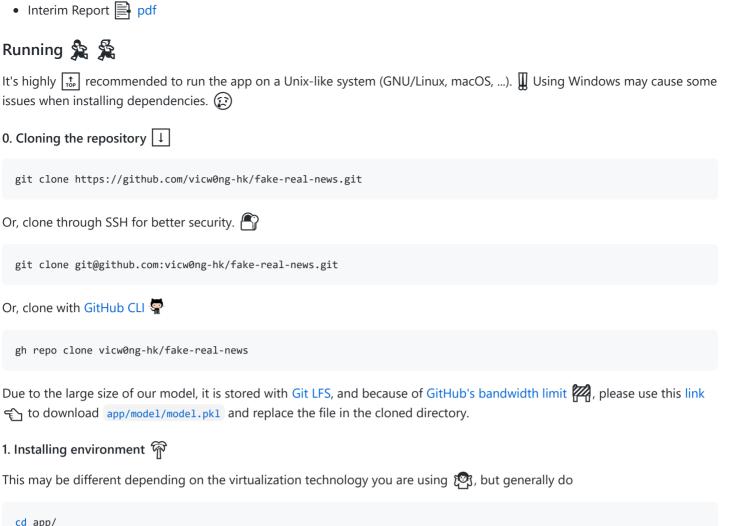
Still, users should keep in mind that we are not the arbitor of truth and that the model cannot replace the work of a professional fact checker - it cannot visit the places where events happened; it cannot interview people involved in the stories; it cannot know the intention of the publishers when they put out the story.

THERE IS NO ALGORITHM FOR TRUTH.



Reports **=**

Proposal pdf



This may be different depending on the virtualization technology you are using [3], but generally do

```
cd app/
pip3 install -r requirements.txt
```

2. Run the app!

python3 app.py

Methodology 🛠

Check out the Methodology document.

Functionalities ()

Check out the Functionalities document.

Limitations 🔪

- One major limitation is from the categorization of our dataset. 1 The dataset we have is a single-label dataset. But this is not in accord with the reality. For example, many conspiracies are highly political, hence a lot of the articles with the conspiracy tag may also fit into the political tag. Hence, by this feature of the dataset, accuracy of training has not been very high for some of the test cases. And it is susceptible to overfitting if we train too much for higher accuracy, which is why we chose to present the predictions in the app by probabilities. (Check out Functionalities)
- Another limitation is our development time and resources. 2 We have a very large dataset (Check out Methodology). However, we cannot make full use of it because we have limited time and resourses allocated by GPU Farm is relatively restrictive compared to the size of our dataset. Hence, we used only a portion of the total data to train our model.
- There is also the limitation of the capabilities of machines. 3 We can only use the content (plus its URL, Title and Authors) to decide the categorization of new articles. For some articles, humans could easily tell their nature and authenticity based on common sense and general knowledge. However, the model cannot think that way, so some of the easy-to-recognize evidence to a human is difficult to find for the model.

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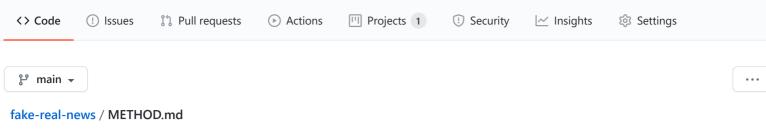
YOUR USE OF THIS WEB APP CONSTITUTES YOUR AGREEMENT TO BE BOUND BY THESE TERMS AND CONDITIONS OF USE.

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Languages

Jupyter Notebook 70.5%

HTML 24.2%
 Python 5.3%





☐ vicw0ng-hk / fake-real-news

(1) History

८३ 1 contributor

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∷ 136 lines (92 sloc) | 10 KB ····
```

Methodology (2)

This project comprises of two Major parts: Model and Web App.

We built both parts on GNU/Linux, with model trained on the HKU CS GPU Farm and web app developed on Pop!_OS 20.10.



Model

Data

Undoubtedly, we need data to train our model. Thanks to @serveral27 \bigwedge , we have a FakeNewCorpus. \bigcirc

In the first phase of the project, we deleted certain not-so-useful columns and trimmed the data down to 25 GB. (2)

Due to the large size of the corpus, Dask, instead of Pandas, is used to process the inital data for its out-of-core characteristics.

We saved the data into hundreds of smaller files.

In the second phase of the project, we concatenated some of the columns together as they can all be handled by a language model. 3 We also deleted rows without a valid type and content and the size came down to 22 GB.

```
df = df.dropna(subset=['type', 'content'])
label = ['fake', 'satire', 'bias', 'conspiracy', 'junksci', 'hate', 'clickbait', 'unreliable', 'political', 'reliable'

for i in range(459):
    df = pd.read_csv('fake.csv/{0:03}.part'.format(i), engine='python', error_bad_lines=False, keep_default_na=False)
    df = df[df['type'].isin(label)]
    df['content'] = df['url'].str.cat(df[['title', 'authors', 'content']], sep=' | ')
    df = df.drop(['url', 'title', 'authors'], axis=1)
    df.to_csv('fake1.csv/{0:03}.part'.format(i), index=False)
```

Types

Note the possible categories from the dataset:

Туре	Tag	Description
Fake News	fake	Sources that entirely fabricate information, disseminate deceptive content, or grossly distort actual news reports
Satire	satire	Sources that use humor, irony, exaggeration, ridicule, and false information to comment on current events.
Extreme Bias	bias	Sources that come from a particular point of view and may rely on propaganda, decontextualized information, and opinions distorted as facts.
Conspiracy Theory	conspiracy	Sources that are well-known promoters of kooky conspiracy theories.
Junk Science	junksci	Sources that promote pseudoscience, metaphysics, naturalistic fallacies, and other scientifically dubious claims.
Hate News	hate	Sources that actively promote racism, misogyny, homophobia, and other forms of discrimination.
Clickbait	clickbait	Sources that provide generally credible content, but use exaggerated, misleading, or questionable headlines, social media descriptions, and/or images.
Proceed With Caution	unreliable	Sources that may be reliable but whose contents require further verification.
Political	political	Sources that provide generally verifiable information in support of certain points of view or political orientations.
Credible	reliable	Sources that circulate news and information in a manner consistent with traditional and ethical practices in journalism (Remember: even credible sources sometimes rely on clickbait-style headlines or occasionally make mistakes. No news organization is perfect, which is why a healthy news diet consists of multiple sources of information).

Language Model

To build a text classifier model we must first build a language model. 💬

fastai handles tokenization and numericalization automatically when TextBlock is passed to DataBlock. All of the arguments that can be passed to Tokenizer and Numericalize can also be passed to TextBlock.

The reason that TextBlock is special is that setting up the numericalizer's vocab can take a long time (we have to read and tokenize every document to get the vocab).

fastai has some optimization on this: $\cup \$

- It saves the tokenized documents in a temporary folder, so it doesn't have to tokenize them more than once.
- It runs multiple tokenization processes in parallel, to take advantage of your computer's CPUs.

Now that we have handled our data, let's fine-tune the pretrained language model.

To convert the integer word indices into activations that we can use for our neural network, we will use embeddings. Then we'll feed those embeddings into a recurrent neural network (RNN), using an architecture called AWD-LSTM. (Check out Smerity et al.)

the embeddings in the pretrained model are merged with random embeddings added for words that weren't in the pretraining vocabulary. This is handled automatically inside <code>language_model_learner</code>:

```
learn = language_model_learner(
    dls_lm, AWD_LSTM, drop_mult=0.3,
    metrics=[accuracy, Perplexity()]).to_fp16()
```

The loss function used by default is cross-entropy loss, since we essentially have a classification problem. The perplexity metric used here is often used in NLP for language models: it is the exponential of the loss (torch.exp(cross_entropy)). We also include the accuracy metric to see how many times our model is right when trying to predict the next word, since cross entropy is both hard to interpret and tells us more about the model's confidence than its accuracy.

Then we can start to use <code>learn.fit_one_cycle()</code> to train our language model (we also uesd <code>learn.lr_find()</code> to find a good learning rate). After each time we trained, we would use <code>learn.save()</code> to save a copy of the state of our model as it takes quite a while to train an epoch. When come back to training after leaving for something else, we can use <code>learn = learn.load()</code> to load the state back, unfreeze the state by <code>learn.unfreeze()</code> and continue training. We would substitude new data using <code>learn.dls = dls_lm_new</code> as the RAM limits on GPU Farm does not allow us to use all data in one go. The accuracy of the language model came to upper 30s to 40s percent.

After training language model, we saved the model (excluding the final layer, of course) using learn.save_encoder('finetuned').

Classifier Model

This is similar to what we have done above 1, with dataloaders as:

The major difference is that <code>is_lm</code> is gone because this is no longer training for a language model, and there is an additional <code>CategoryBlock</code>.

We can now create a model using text_classifier_learner to classify our texts:

And then load the encoder we saved earlier:

```
learn = learn.load_encoder('finetuned')
```

Then we start training using <code>learn.fit_one_cycle()</code> . We also used <code>learn.freeze_to()</code> to freeze some parameters and then train the model, after which we use <code>learn.unfreeze()</code> to unfreeze the parameters and then train for a few more epochs. The accuracy came to about 90% for the validation set of the data we used for training. However, since the RAM limits we could not use most of our data and the accuracy on some other data may vary from 30% - 98% (check out one testing example).

This doesn't seem top-notch, but it's acceptable since news articles generally fit into multiple categories and yet we only have a single-label dataset. More on this in our discussion of limitations.

After training, simply use learn.export() to export the model for the web app in the next step.

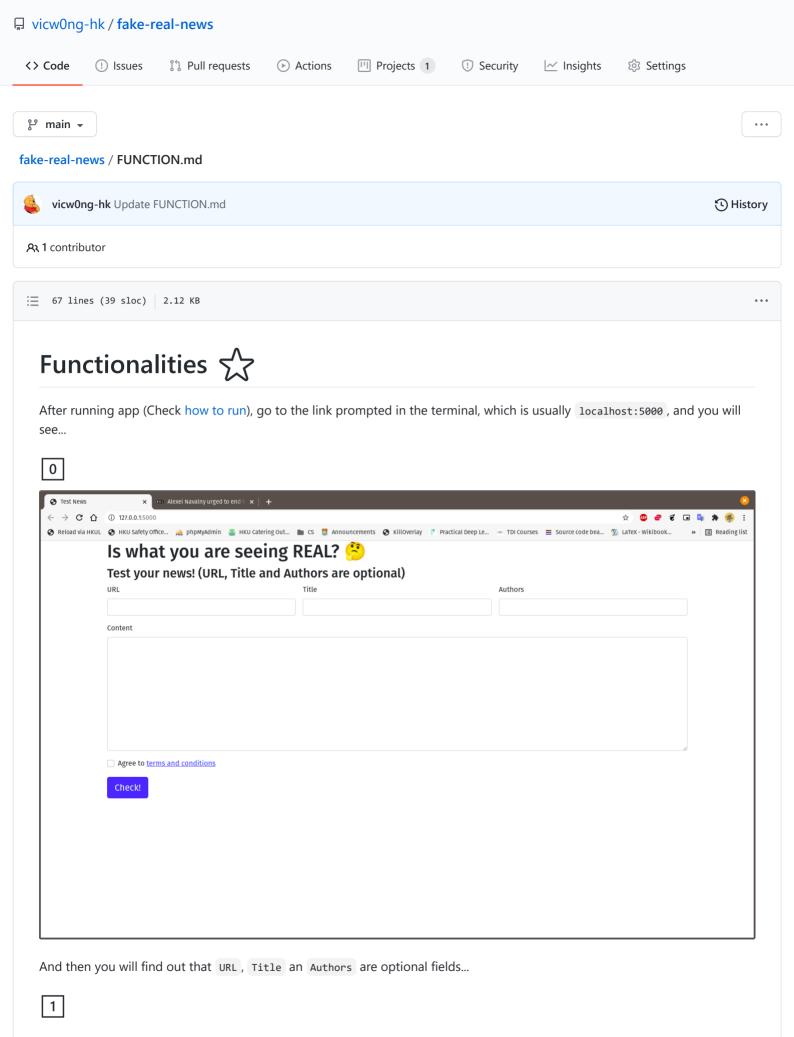
Web app

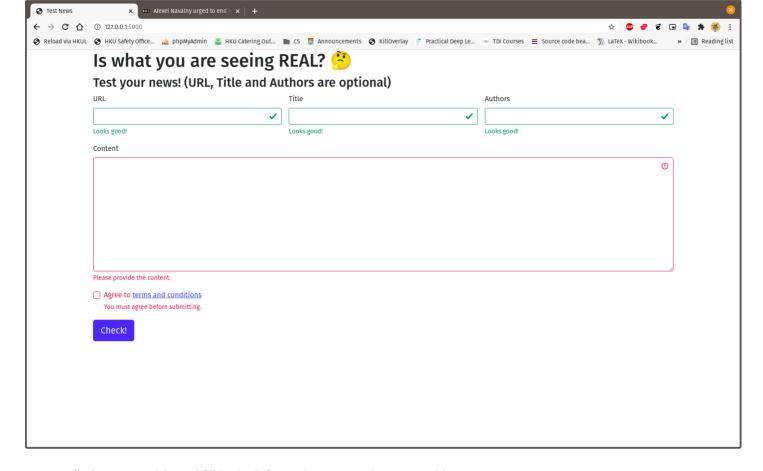
We used Flask, a minimal Python web framework. We love its simplicity. And you can see this by the only main part of our server side pappapp.py.

Some Highlights

- Since Flask supports Jinja, we used it for our HTML templates, adding a dynamic component to static templates.
- We used Bootstrap to customize the look and feel of our web pages. We also included JavaScript and jQuery to implement certain styles.

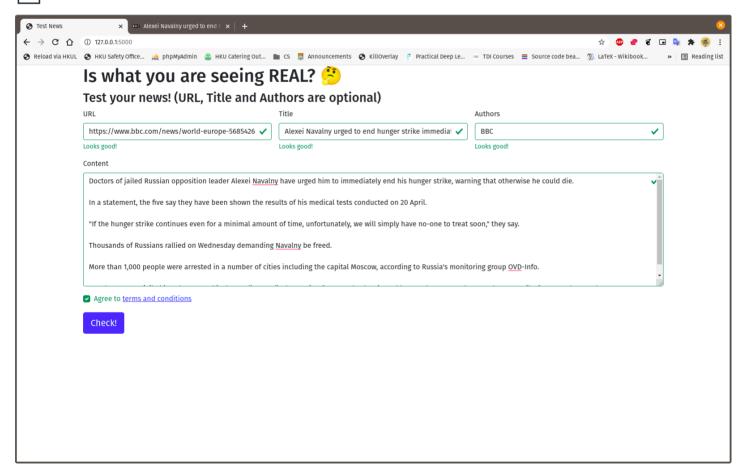
- We implemented CSRF Protection (CSRFProtec from Flask-WTF) in POST form submissions.
- We used Flask-SQLAlchemy to interact with SQLite3, which stores use feedback and we can us the feedback to better train our model. Mode on this in our discussion of functionalities.
- We used load_learner from fastai to load the trained model and then use the model to get predictions on our input.



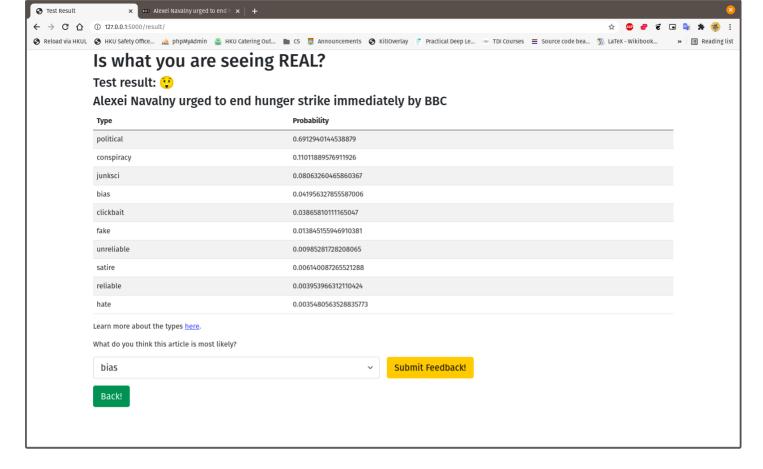


You can find a news article and fill in the information (I am going to use this)...

2

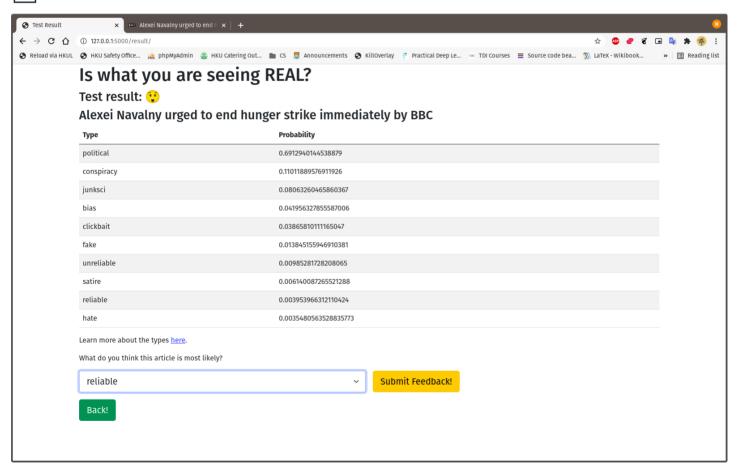


Agree to our terms and conditions, and you can click on Check!...

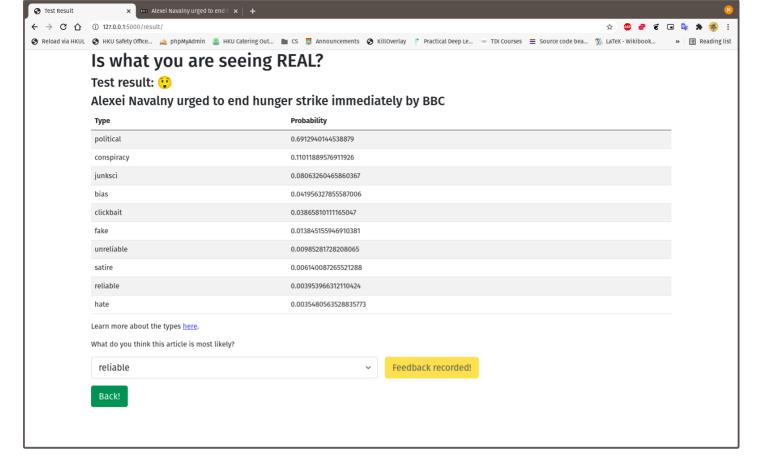


It is indeed a political coverage! But if you disagree, choose another type...





And click on Submit Feedback...



And you will see that it has been recorded, and you can go back now by clicking no Back!...

Sustainability (\$\sqrt{s}\$)

What happens to the recorded data? If you check <code>app/app.py</code>, you will see that it has been recorded in a database called <code>feedback.sqlite3</code>. You can use the following code to get recorded feedbacks:

```
import pandas as pd
import sqlite3

conn = sqlite3.connect('feedback.sqlite3')

df = pd.read_sql_query('SELECT * from Feedback', conn, index_col='id').reset_index(drop=True, inplace=True)
```

You can further clean the data as in Methodology and then use

to load the data into the model and start training as discussed in Methodology. After that, simply export the model using <code>learn.export('model.pkl')</code> and replace the <code>app/model/model.pkl</code> with the newly trained one.

```
import pandas as pd
In [1]:
                    from fastai.text.all import *
                   learn = load learner('model.pkl')
In [2]:
In [3]:
                    df = pd.read csv('fake.csv/test.part')
                    df.head()
Out[3]:
                            type
                                                                                                                                                                                                                                                                content
                                                http://beforeitsnews.com/space/2016/11/pluto-has-a-subsurface-antifreeze-ocean-2503540.html | Pluto Has a Subsurface 'Antifreeze' Ocean |
                                                  Universe Today | Pluto Has a Subsurface 'Antifreeze' Ocean\n\nHeadline: Bitcoin & Blockchain Searches Exceed Trump! Blockchain Stocks Are
                  n
                                                         Next!\n\nThe evidence keeps growing for a large subsurface ocean at Pluto, which also provides clues how the iconic 'heart' of Pluto was
                              fake
                                         formed.\n\nWe reported in early October that thermal models of Pluto's interior and tectonic evidence suggest an ocean may exist beneath Pluto's
                                                                                                                                                                                                              heart-shaped Sputnik Planitia. Now, ne..
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                                       Away With Need for Dark Matter | Universe Today | New Theory of Gravity Does Away With Need for Dark Matter\n\nHeadline: Bitcoin & Blockchain
                  1
                              fake
                                          Searches Exceed Trump! Blockchain Stocks Are Next!\n\n\n\nErik Verlinde explains his new view of gravity\n\nLet's be honest. Dark matter's a pain
                                                 in the butt. Astronomers have gone to great lengths to explain why is must exist and exist in huge quantities, yet it remains hidden. Unknown.
                                                 http://before its news.com/space/2016/11/weekly-space-hangout-november-18-2016-dr-jason-wright-and-tabbys-star-2503598.html \mid Weekly-space-hangout-november-18-2016-dr-jason-wright-and-tabbys-star-2503598.html \mid Weekly-space-hangout-november-18-2016-dr-jason-wright-and-tabbys-space-hangout-november-18-2016-dr-jason-wright-and-tabbys-space-hangout-november-18-2016-dr-jason-wright-and-tabbys-space-hangout-november-18-2016-dr-jason-wright-and-tabbys-space-hangout-november-18-2016-dr-jason-wright-and-tabbys-space-hangout-november-18-2016-dr-jason-wright-and-tabbys-space-hangout-november-18-2016-dr-jason-wright-and-tabbys-space-hangout-november-18-2016-dr-jason-hangout-november-18-2016-dr-jason-hangout-november-18-2016-dr-jason-hangout-november-18-2016-dr-jason-hangout-november-18-2016-dr-jason-hangout-november-18-2016-dr-jason-hangout-november-18-2016-dr-jason-hangout-november-18-2016-dr-jason-hangout-november-18-2016-dr-jason-hangout-november-18-2016-dr-jason-hangout-november-18-2016-dr-jason-hangout-november-18-
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                                              Wright and Tabby's Star\n\n% of readers think this story is Fact. Add your two cents.\n\nHeadline: Bitcoin & Blockchain Searches Exceed Trump!
                  2
                                         Blockchain Stocks Are Next!\n\nHost: Fraser Cain (@fcain)\n\nSpecial Guest\n\nDr. Jason Wright is Professor in Penn State University's Department
                                                                                                                                                                                                                 of Astronomy and Astrophysics. Jaso...
                                                 http://www.washingtonexaminer.com/susan-collins-hints-trumps-backing-could-get-obamacare-bills-through-house/article/2642535 \mid Susan-collins-hints-trumps-backing-could-get-obamacare-bills-through-house/article/2642535 \mid Susan-collins-hints-trumps-backing-get-obamacare-bills-through-house/article/2642535 \mid Susan-collins-hints-trumps-backing-get-obamacare-bills-through-house-bills-through-house-bills-through-hints-trumps-backing-get-obamacare-bills-through-house-bills-through-house-bills-through-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-hints-
                                                     Collins hints Trump's backing could get Obamacare bills through House | Robert King | Sen. Susan Collins hinted Monday that backing from
                                              President Trump would help get two Obamacare stabilization bills passed in the House.\n\nThe Maine Republican said she received an "ironclad
                  3 political
                                              commitment" from Senate Majority Leader Mitch McConnell, R-Ky., and President Trump that the two bills would become law by the end of the
                                                                                                                                                                                              year. Missing from that statement is a commitme...
                                                                 http://www.washingtonexaminer.com/trent-franks-resigns-immediately-from-congress-cites-wifes-hospitalization-after-surrogacy-
                                             revelations/article/2642995 | Trent Franks resigns immediately from Congress, cites wife's hospitalization after surrogacy revelations | Al Weaver |
                  4 political
                                                           Rep. Trent Franks, R-Ariz., announced Friday that he is resigning from Congress effective immediately instead of waiting until the end of
                                           January.\n\nFranks said Thursday he would leave next month after it emerged that he discussed surrogate parenthood with two female staffers -
                                                                                                                                                                                                        some reports said he asked them directly t...
                    dls_clas = DataBlock(blocks=(TextBlock.from_df('content'),CategoryBlock),
In [4]:
                                                                get_x=ColReader('text'), get_y=ColReader('type'),
                                                                splitter=RandomSplitter(0.1)
                                                              ).dataloaders(df, bs=32, seq_len=80)
                    dls_clas.show_batch(max_n=3)
                 /userhome/cs/vicw@ng/anaconda3/lib/python3.8/site-packages/numpy/core/ asarray.py:83: VisibleDeprecationWarning: Creating a
                 n ndarray from ragged nested sequences (which is a list-or-tuple of lists-or-tuples-or ndarrays with different lengths or s
                 hapes) is deprecated. If you meant to do this, you must specify 'dtype=object' when creating the ndarray
                    return array(a, dtype, copy=False, order=order)
                                                                                                                                                                                                                                                    text category
                         xxbos http://beforeitsnews.com/religion/2013/07/xxunk|xxup how xxup the xxup apostles xxup deceived xxup humanity xxup about xxup
                            qod xxup and xxup jesus | | xxup how xxup the xxup apostles xxup deceived xxup humanity xxup about xxup qod xxup and xxup jesus \n\n % of
                               readers think this story is xxmaj fact . xxmaj add your two cents . \n\n xxmaj headline : xxmaj bitcoin & xxmaj blockchain xxmaj searches xxmaj
                                                                                                                                                                                                                                                                      fake
                            exceed xxmaj trump! xxmaj blockchain xxmaj stocks xxmaj are xxmaj next! \n\n xxup how xxup the xxup apostles xxup deceived xxup humanity
                        xxup about xxup god xxup and xxup jesus \n\n xxmaj for the past two thousand years , xxmaj christianity has led mankind to believe that what the
                                                                                                   apostles wrote about xxmaj jesus in the xxmaj new xxmaj testament of the xxmaj bible, especially
                         xxbos http://xxrep 3 w.unz.com/article/california-and-the-end-of-white-america/|xxmaj california and the xxmaj end of xxmaj white
                           xxmaj america | xxmaj ron xxmaj unz , xxmaj sayed xxmaj hasan , xxup a. xxmaj graham , xxmaj the xxmaj rubin xxmaj report | xxup summary \n\n
                                 xxmaj californians of xxmaj european xxunk a minority near the end of the 1980s, and this unprecedented ethnic transformation is probably
                                                                                                                                                                                                                                                                      bias
                        responsible for the rise of a series of ethnically - charged political issues such as immigration, affirmative action, and bilingual education, as seen
                           in xxmaj propositions 187, 209, and 227. xxmaj since xxmaj america as a whole is undergoing the same ethnic transformation delayed by a few
                                                                                                                                          decades, the experience of these controversial campaigns tells us much
                              xxbos http://beforeitsnews.com/alternative/2016/03/as-larger-and-more-numerous-fireballs-scream-across-the-sky-and-
                         strong - winds - blow - all - over - the - world - here - is - what - you - need - to - know - to - make - it - through - post - nibiru - and - through -
                         events - leading - up - to - xxunk | xxmaj you xxmaj can xxmaj make xxmaj it xxmaj through post - nibiru xxmaj and xxmaj poleshift!! xxmaj here
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                        xxmaj is xxmaj what xxmaj you xxmaj need xxmaj to xxmaj know xxmaj as xxmaj fireballs xxmaj scream xxmaj across xxmaj the xxmaj sky xxmaj and
```

learn.dls = dls_clas

learn.show_results()

In [5]:

In [6]:

category category

text

xxmaj strong xxmaj winds xxmaj blow xxmaj all xxmaj over xxmaj the xxmaj world

	text	category	category_
0	xxbos http://beforeitsnews.com/new-world-order/2015/11/xxunk xxup nwo xxmaj mass xxmaj hypnosis xxmaj program xxup nwo xxmaj mass xxmaj hypnosis xxmaj program hynn xxmaj headline: xxmaj bitcoin & xxmaj blockchain xxmaj searches xxmaj exceed xxmaj trump! xxmaj blockchain xxmaj stocks xxmaj are xxmaj next! hynn 1 xxmaj new xxmaj world xxmaj order xxmaj underworld xxmaj mass xxmaj hypnosis xxmaj program xxmaj introduction 1 xxmaj mass xxunk and requests to reprint an earlier news article published earlier on xxup bin concerning real estate scams involving use of xxmaj new xxmaj mexico xxup llc companies to launder illicit real estate monies earned by a world meditation company and laundered by an xxmaj american businessman who created a multimillion dollar real estate empire from his relationship with the company generated a more detailed news -	fake	junksci
1	xxbos https://xxrep 3 w .naturalnews.com / xxunk xxmaj the xxmaj mothers xxmaj act xxmaj disease xxmaj mongering xxmaj campaign - xxmaj part xxup iv xxmaj the a xxmaj team \n\n xxmaj old xxmaj chemical xxmaj imbalance in the xxmaj brain xxmaj scam \n\n xxmaj sad xxmaj xxunk \n\n xxmaj respected xxmaj researchers support the xxmaj mothers xxmaj act \n\n xxmaj and xxmaj speaking of xxmaj harvard \n\n xxmaj disease xxmaj mongering in the xxmaj media \n\n xxmaj time xxmaj magazine xxmaj blasted \n\n xxmaj amy xxmaj liked xxmaj it \n\n xxmaj plan of xxmaj attack \n\n xxmaj internet xxmaj battle xxmaj breaks xxmaj out \n\n xxmaj grohol 's xxmaj internet xxmaj one - stop \n\n (naturalnews) xxmaj this is part four of an article series by xxmaj evelyn xxmaj pringle . xxmaj find previous parts here : xxmaj part xxmaj one	junksci	junksci
2	xxbos http://xxrep 3 w.vdare.com/radios/radio-derb-somalis-salvadorans-and-strategic-deportation-etc xxmaj radio xxmaj derb:xxmaj somalis, xxmaj salvadorans, xxmaj and xxmaj strategic xxmaj deportation, xxmaj etc. xxunk—xxmaj somali averages are terrible.(and we 've imported them.) \n\n xxunk—xxmaj somalis' twofer privilege.(un-identifiable, un-xxunk.) \n\n xxunk—xxmaj it ai n't over till the alien wins.(also un-deportable.)\n\n xxunk—xxup ms-13 among the kulaks.(news from xxmaj xxunk.)\n\n xxunk—xxmaj immigrants are better than us, series # xxunk.(burn down the xxmaj ivy xxmaj league!) \n\n xxunk—xxmaj	bias	political
3	xxbos http://beforeitsnews.com/power-elite/2016/03/if-you-want-to-know-why-americans-seem-so-cold-and-heartless-lately-then-read-what-the-ruling-khazars-have-done-through-their-drug-companies-and-our-xxunk xxmaj if xxmaj you xxmaj want xxmaj to xxmaj know xxmaj why xxmaj americans xxmaj seem xxmaj so xxmaj cold xxmaj and xxmaj heartless xxmaj lately, xxmaj then xxmaj read xxmaj what xxmaj the xxmaj ruling xxmaj khazars xxmaj have xxmaj done, xxmaj through xxmaj their xxmaj drug xxmaj companies xxmaj and xxmaj our xxmaj fda xxmaj the xxmaj vatic xxmaj project xxmaj headline: xxmaj bitcoin & xxmaj blockchain xxmaj searches xxmaj exceed xxmaj	fake	fake
4	xxbos http://beforeitsnews.com/spirit/2016/06/xxunk xxmaj the "spirit of xxmaj man" – xxmaj do xxmaj you xxmaj know what that "spirit "xxmaj is? xxmaj the "spirit of xxmaj man" – xxmaj do xxmaj you xxmaj know what that "spirit "xxmaj is?\n\n xxmaj headline:xxmaj bitcoin & xxmaj blockchain xxmaj searches xxmaj exceed xxmaj trump!xxmaj blockchain xxmaj stocks xxmaj are xxmaj next!\n\n xxup the xxup spirit – "of" – xxup man \n\n xxmaj this xxmaj truth found in the xxmaj word of xxmaj god will be quickly rejected by "nominal" xxmaj christians — it invalidates all their doctrines.xxmaj the "spirit – xxup of – xxmaj man" is – not — an immortal'soul'	fake	fake
5	xxbos http://xxrep 3 w.rense.com/general96/xxunk xxmaj appeal xxmaj of xxmaj ban xxmaj aspartame xxmaj petition xxmaj and xxmaj imminent xxmaj health xxmaj hazard xxmaj to xxup fda - xxmaj dr . xxmaj joseph xxmaj thomas with copy to xxmaj dr . xxmaj david xxmaj hattan \n\n\n\n xxmaj dear xxmaj dr . xxmaj thomas: \n\n\n\n xxmaj this is the second request appealing the original request for ban aspartame that took xxup fda 14 years to answer . xxmaj let me remind you of the law . xxmaj you have 180 days to answer . xxmaj the xxmaj imminent xxmaj health xxmaj hazard petition is suppose to be answered in a week or ten days and i filed in 2007 and its never been answered . \n\n\n\n xxmaj you have found a loop - hole where you can always answer	conspiracy	conspiracy
6	xxbos http://beforeitsnews.com/christian-news/2016/08/xxunk xxup the xxup limits xxup of xxup the xxup church by xxmaj fr xxmaj georges xxmaj florovsky xxmaj monks xxmaj and xxmaj mermaids, a xxmaj benedictine xxmaj blog xxup the xxup limits xxup of xxup the xxup church by xxmaj fr xxmaj georges xxmaj florovsky \n\n xxmaj headline: xxmaj bitcoin & xxmaj blockchain xxmaj searches xxmaj exceed xxmaj trump! xxmaj blockchain xxmaj stocks xxmaj are xxmaj next! \n\n " the xxmaj limits of the xxmaj church " by xxmaj fr . xxmaj georges xxmaj florovsky \n\n xxmaj the following piece by xxmaj xxunk xxmaj georges xxup v. xxmaj florovsky was originally published in 1933 in xxmaj church xxmaj quarterly xxmaj review . xxmaj where xxmaj florovsky does not translate foreign phrases, we have supplied a translation	fake	fake
7	xxbos http://beforeitsnews.com/survival/2014/04/xxunk xxmaj was xxmaj franklin xxmaj roosevelt a xxmaj communist? b xxmaj mans xxmaj revolt xxmaj was xxmaj franklin xxmaj roosevelt a xxmaj communist?\n\n xxmaj headline:xxmaj bitcoin & xxmaj blockchain xxmaj searches xxmaj exceed xxmaj trump!xxmaj blockchain xxmaj stocks xxmaj are xxmaj next!\n\n xxmaj was xxmaj franklin xxmaj roosevelt a xxmaj communist? by xxup dc xxmaj dave\n\n xxmaj john xxmaj beaty in his 1951 book, xxmaj the xxmaj iron xxmaj curtain xxmaj over xxmaj america, asks the following rhetorical question (p. 187):\n\n xxmaj in solemn truth, do not seven persons share most of the responsibility for establishing the xxmaj communist grip on the world? xxmaj are not the seven: (1) xxmaj marx	fake	fake
8	xxbos http://beforeitsnews.com/financial-markets/2017/01/new-year-naps-top-stocks-xxunk-how-to-play-the-xxunk xxmaj new xxmaj year xxup naps – xxmaj top xxmaj stocks for 2017 and how to play the xxmaj joker xxmaj new xxmaj year xxup naps – xxmaj top xxmaj stocks for 2017 and how to play the xxmaj joker \n\n xxmaj headline: xxmaj bitcoin & xxmaj blockchain xxmaj searches xxmaj exceed xxmaj trump! xxmaj blockchain xxmaj stocks xxmaj are xxmaj in this climate, it's been proven to be a year for the stock xxunk. xxmaj the wonderful xxmaj paul xxmaj	fake	fake