Predicting Political Orientation in News with Latent Discourse Structure to Improve Bias Understanding

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Abstract

With the growing number of information sources, the problem of media bias becomes worrying for a democratic society. This paper explores the task of predicting the political orientation of news articles, with a goal of analyzing how bias is expressed. We demonstrate that integrating rhetorical dimensions via latent structures over sub-sentential discourse units allows for large improvements, with a +7.4 points difference between the base LSTM model and its discourse-based version, and +3 points improvement over the previous BERT-based state-of-the-art model. We also argue that this gives a new relevant handle for analyzing political bias in news articles.

1 Introduction

Misinformation is a major threat on modern democracy, influencing political agendas in an arguably unfair way, through multiple sources that are more or less transparent in their orientations. Biased media can influence public opinion by selecting reported facts and angles, oriented presentation of events, with a proven impact, e.g. on electoral behaviours (DellaVigna and Kaplan, 2007) or public health (Simonov et al., 2020). The automatic identification of such biases can thus help more transparent and democratic sharing of information, and the understanding of its typical expression.

The study of bias has generated a lot of interest in political sciences with some emphasis on its linguistics aspects (Lee and Solomon, 1990; Levasseur, 2008), which also gave rise to numerous studies on automating bias detection (Hamborg et al., 2019). NLP approaches mostly rely on lexical information (Recasens et al., 2013), or syntax (Iyyer et al., 2014), with, recently, the use of pretrained language models (Baly et al., 2020) or document-level bias distribution (Chen et al., 2020).

Bias can be expressed in more subtle ways however. In the excerpts below (Figure 1), discussing the 2019 Virginia Beach mass shooting¹, we can clearly identify the difference in coverage, with specific lexical choices ("epidemic", "refuse to cover") but also different ways of presenting the event: the style is either descriptive (BBC) or more emotional (WP, Townhall); the writer insists on particular topics or angles (use of silencers, weapon prohibition). The choice of topics is indeed an important aspect of misinformation (Scheufele and Tewksbury, 2007), and has also generated NLP work, still lexically focused (Card et al., 2015; Baumer et al., 2015; Field et al., 2018; Morstatter et al., 2018).

*The Virginia Beach shooter put a sound suppressor (...) so that the death shots were muffled, perhaps denying others the warning that would have allowed them to escape. It is long past time to remove the silencer that seems to suppress action on gun-control legislation, to treat mass shooting as the epidemic it is, and do everything possible to save lives.*

(Washington Post, left-leaning)

*The attack began shortly after 16:00 (20:00 GMT), at Virginia Beach Municipal Center, in an area which is home to a number of city government buildings. The area was put into lockdown by police and employees were evacuated. 'We just heard people yelling and screaming at people to get down,' Megan Banton, an administrative assistant in the building, told local television news station WAVY.*

(BBC, center)

*The chilling fact is that mass public killers are attracted to targets where people can’t defend themselves. (...) Ninety-eight percent of US mass public shootings since 1950 have occurred in places where people weren’t allowed to defend themselves. But the news media refuses to cover this fact, which illustrates the need for self-defense, not for more gun control that doesn’t work.*

(Townhall, right-leaning)

Figure 1: Excerpts from articles on the 2019 Virginia Beach mass shooting from media with different political tendencies.

In contrast, we investigate the task of predicting political orientation of news articles, while trying to consider global argumentative aspects instead of local, lexical ones. This classification task consists in predicting the political leaning of an article by considering, in our case, 3 political classes (left, center, right). Since text-level discourse analysis...

¹https://www.allsides.com/blog/virginia-beach-shooting-reinvigorates-gun-debate
is still a difficult problem (Zhang et al., 2020), our architecture encodes a document while automatically inducing latent structural dependencies as in Liu and Lapata (2018), with a focus on elementary discourse units instead of sentences. We hypothesize that structural information can help identify political sides and give insights into aspects related to the argumentative nature of different media.

We evaluate our approach on news articles (Baly et al., 2020) and also perform a preliminary interpretability study. Our contributions are: (i) a model predicting political orientation of news articles, inducing a latent structure over discourse segmented texts, with state-of-the-art results; (ii) a preliminary analysis of the impact of lexical and structural information for bias detection. Our code is available at: https://github.com/neops9/news_political_bias.

2 Related work

There are multiple ways to consider the task of classifying political ideologies, especially by varying the number and type of classes, and the level of analysis. For example, one SemEval 2019 shared task focused on identifying hyperpartisan articles (Kiesel et al., 2019). Political bias can also be characterized by locating "propaganda techniques" in texts, as in the SemEval 2020 shared task (Da San Martino et al., 2020). Here, we consider the task proposed by Baly et al. (2020) based on 3 classes (left, center, right). A similar task was also considered in Li and Goldwasser (2021), but their dataset is not available for comparison. In addition, Baly et al. (2020) explore methods that prevent the model from using media-related information while remaining based on other lexical and syntactic ones (see section 3). They report at best 51.41% in accuracy.

Contrary to previous studies based solely on lexicosyntactic information, we hypothesize that document-level organization is crucial. Rather than relying on low-performing discourse parsers, we test Liu and Lapata (2018)’s approach: structural dependencies over sentences are induced while encoding the document. Their results indicate that the learned representations, without ever exposing the model to linguistic annotations or an external parser, achieve competitive performance on a range of tasks while arguably being meaningful. This approach is effective for summarization with the learned structures, while less complex than classical ones, capturing consistent information (Liu et al., 2019; Isonuma et al., 2019; Balachandran et al., 2021). A similar approach was shown to be effective for detecting fake/real news articles (Karimi and Tang, 2019). While focused on discourse-level phenomena, previous studies use sentences as basic units. We experiment with a fine-grained level, discourse segments, provided by a state-of-the-art segmenter.

3 Model

In Liu and Lapata (2018), the sentences in each document are composed of sequences of static word embeddings that are fed to a bi-LSTM to obtain hidden representations used to compute the sentence representations, that are then passed through another bi-LSTM to compute the document representation. At both levels, representations are built using the structured attention mechanism allowing for learning sentence dependencies, constrained to form a non-projective dependency tree. Finally a 2-layer perceptron predicts the distribution over class labels.

We modify the model to include the improvements proposed by Ferracane et al. (2019). In particular: (i) we remove the document-level bi-LSTM, (ii) for the pooling operation, we aggregate over units using a weighted sum based on root scores, instead of a max pooling, (iii) we perform several additional levels of percolation to embed information from the children’s children of the tree, and not only direct children.

On top of that, we skip the sentence-level structure attention as it adds an unnecessary level of composition that was found to have a negative empirical impact on the results.

Segmentation The learning of a latent structure is supposed to let the model leverage rhetorical and argumentative processes that can reflect the author’s political orientation. We change the relevant textual units from sentences to more discourse-oriented ones, as given by a discourse segmenter (Muller et al., 2019). Discourse segmentation is the first stage of discourse parsing, identifying text spans called Elementary Discourse Units (EDU) that will be linked by discourse relations.

Adversarial Adaptation Some specific cues (e.g. media name, common patterns) can reveal the media source. Since most articles from a media share the same political label, the classifier decisions are
biased towards the source and models easily overfit the training set. But removing these cues is a costly, hard to generalize preprocessing step. Baly et al. (2020) suggest two approaches: adversarial adaptation, or AA (Ganin et al., 2016), and triplet loss pre-training (Schroff et al., 2015), and chose the latter based on preliminary results. On the contrary we found AA more promising: it works by adding a media classifier within the architecture whose loss will be maximized using a gradient reversal layer. The model thus learns to be discriminative for the main task while being media independent.

As the training set contains many media sources, with a long tail distribution, we only consider the 10 most frequent sources (74% of the data) for the adversarial part of the model.

4 Dataset and Settings

Allsides Dataset The articles are crawled from the Allsides website, with 192 news sources covering 109 topics. Allsides is a platform that offers an analysis of the political leaning of various English-language media at the article level by annotating them with 5 political classes that cover the whole political spectrum from the Left to the Right. The published version of the dataset used in Baly et al. (2020) does not match their paper as it includes resp. 2, 817 and 119 additional articles and media. Although it complicates results comparison, we kept the published dataset which is large and seems well designed. This dataset comes with two organizations: article-based or media-based. We chose the latter (30, 246 articles) where media present at training time are excluded from evaluation, which avoids evaluating the model on articles that come from media already seen during training. For complexity reasons, we removed from the training set the longest articles in terms of number and size of segments, using a threshold of 100. The final dataset contains 27, 146 articles, see Table 1. Note that the original Allsides data are divided into 5 classes, but Baly et al. (2020) merged the two Left (resp. Right) classes.

Segmentation We kept the pre-processed data as in Baly et al. (2020) but we experimented with both sentence- and EDU-segmented texts (see Section 3). We rely on the DISRPT2019 shared task winner (Muller et al., 2019) that only needs plain text as input. The model is based on the BERT pretrained transformer language model, fine-tuned for sequence tagging on plain documents from the GUM corpus (Zeldes, 2016), the English dataset which has the most varied document types. We end up with an average of 49 EDUs per article, and an average of 19 words per EDU.

Settings We built on Ferracane et al. (2019)’s implementation, itself based on Liu and Lapata (2018)’s. We adapted the code according to the modifications and additions proposed in our approach as detailed in Section 3. Hyper-parameters were set using grid search: 200 for the hidden size of bi-LSTM and 2-layer perceptron, 0.01 for learning rate, 0.5 for dropout and 8 for batch size. We used pretrained 300D GloVe vectors. For Adversarial Adaptation, best results used a weighting factor λ = 0.7 for the adversarial part of the loss. Training is done with Adagrad optimizer, on a Nvidia GeForce GTX 1080 Ti GPU card.

Evaluation We evaluate four versions: (i) keeping only the bi-LSTM (Ours Base), (ii) full architecture with structural attention and sentence segmentation (Ours+SA/Sent), (iii) full architecture but with EDU segmentation (Ours+SA/EDU), and (iv) full architecture but keeping only the first 512 tokens of each text as in Baly et al. (2020) (Ours: 512t, +SA/EDU). We report standard measures but also the mean absolute error (MAE) as this is an ordinal problem. We compare to scores reported in Baly et al. (2020) on the same split for their LSTM and BERT versions (limited to 512 tokens).

5 Results and Analysis

Results obtained by the different models are given in Table 2. We also report scores per class in Table 3 (best model) to control that the model does

|       | Left | Center | Right | Total |
|-------|------|--------|-------|-------|
| Train | 9,618(41%) | 6,683(28%) | 7,189(31%) | 23,490 |
| Valid | 98(4%) | 618(26%) | 1,640(70%) | 2,356 |
| Test  | 599(46%) | 299(23%) | 402(31%) | 1,300 |

Table 1: Statistics about the dataset (media-based split).

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1http://allsides.com/
2https://github.com/ramybaly/Article-Bias-Prediction
3Note that the original version is not available.
4Recent approaches reported improvements (Zeldes et al., 2021), but require more preprocessing, e.g. syntactic parses.
5https://github.com/elisaF/structured/
not overpredict most represented classes. We observe significant differences in performance between models that use structured attention (+SA) gaining about 7.4 points in accuracy and 6 in macro $F_1$ for the best version (+SA/EDU). Our full model, using GloVe, obtains higher scores that those reported in Baly et al. (2020) (LSTM version), +8 points acc. and +6 in $F_1$, and also a +3 improvement in both over their best BERT-based system.

We performed a control experiment on the size of the input as Baly et al. (2020) only consider the first 512 tokens of the articles, as this is a hard constraint on the BERT model. Reducing the input size (line 4 in Table 2) decreases model performance, showing the importance of considering the whole text and which represents an important limitation of BERT. The experiments with EDUs show the importance of having fine-grained level discourse phenomena: SA based on sentences only improves results by less than 2 points, while SA based on EDUs is much more efficient. In addition, we show the benefits of modifications made to the implementation of Liu and Lapata (2018) that include those proposed by Ferracane et al. (2019) with a +3 points improvement in accuracy. The detailed results by class show that our approach does not overspecialize, although the center class is harder to predict.

As said above, dataset differences and the lack of detailed results per class means the comparison with Baly et al. (2020) should be considered with caution. In particular, since they do not yet provide an implementation to replicate their experiments, we cannot control the overspecialization issues.

Regarding biases towards the topics covered, we rely on the analysis by Baly et al. (2020) for their dataset: they showed that topics covered are fairly represented in each class and thus that it should not significantly impact the model decisions.

We also want to give here some insights into the model by an analysis with interpretability methods at the lexical level but also with respect to the induced structure.

**Saliency Map** A saliency map in NLP is a method for visualizing a deep learning model by computing relative importance of each token (word) in the input based on gradients (Ribeiro et al., 2016; Murdoch et al., 2018). It allows us to identify the lexical cues that provide partial understanding of the decisions made by the model. Here, we considered the vanilla gradient approach (Simonyan et al., 2014), focusing on the gradient of the loss with respect to each token embedding. From these, we can first clearly assess the positive impact of the AA method. Lexical cues used by the model without AA, such as the name of the media source, are no longer as relevant for the prediction, although still present. We notice that the model focuses on specific lexical fields depending on the political orientation of the article, such as health, numbers/statistics, economy, for left, center and right leaning articles respectively. We found that crucial information for the model are the mentions or quotes of political figures (e.g., Donald Trump, Hillary Clinton, @realDonaldTrump, Barack) by media sources of the same political side, but they also represent an important source of errors when it appears in articles of the opposite side as the model tends to use this information alone without considering its context.

It also confirms our intuition that there is relevant information in the middle and at the end of articles,

| Model               | Acc.  | Macro $F_1$ | MAE  |
|---------------------|-------|-------------|------|
| Ours Base           | 46.97 | 44.41       | 0.69 |
| Ours+SA/Sent        | 48.76 | 45.84       | 0.67 |
| Liu&Lapata+SA/EDU   | 51.01 | 48.61       | 0.72 |
| Ours+SA/EDU         | 54.39 | 51.36       | 0.57 |
| Ours: 512t, +SA/EDU | 50.04 | 45.23       | 0.70 |
| Baly 20: 512t, LSTM | 46.42 | 45.44       | 0.62 |
| Baly 20: 512t, BERT | 51.41 | 48.26       | 0.51 |

Table 2: Accuracy%, macro-$F_1$%, Mean Absolute Error (MAE, lower is better) on the test set for different versions of the model. "Baly 20" refers to the results reported in Baly et al. (2020), we did not replicate their experiments. "512t" means that only the first 512 tokens of the inputs were used to train the model. "SA" = for Structured Attention, and "Sent"/"EDU" is for inputs segmented in sentence or discourse units. We also evaluate on the original model proposed by Liu and Lapata (2018) without the improvements added in our version of the model. The 95% binomial proportion confidence interval for the best model classification accuracy is 2.9%

| Side   | Prec.% | Recall% | $F_1$% |
|--------|--------|---------|--------|
| Left   | 67.39  | 27.19   | 38.75  |
| Center | 39.59  | 72.76   | 51.28  |
| Right  | 66.53  | 61.74   | 64.05  |

Table 3: Scores per class (best model): Ours+SA/EDU.
even though the model usually focuses on small portions of text, and it explains why reducing the entry size results in a loss of performance. An example is provided in appendix A as heatmap.

**Structured Attention** Regarding structured attention, we extracted the maximum spanning trees from the attention scores using the Chu-Liu-Edmonds algorithm (Chu and Liu, 1965; Edmonds, 1967). An example of dependency tree is given in appendix A. For a first qualitative analysis, we looked at some statistics following Ferracane et al. (2019) methodology. In particular, we measure the average height of trees (10.68), the average proportion of leaf nodes (0.77), and the average normalized arc length (0.35). Statistics per class are equivalent. The learned trees have complex (non-flat) structures which show that relevant information to the model has been encoded in them in contrast to the results obtained by Ferracane et al. (2019). We observed that they have marked differences with “natural” structures, such as distant links and it could be interesting to add more constraints.

6 Conclusion

We proposed an original approach for predicting the political orientation of newspaper articles based on learning a latent structure showing the importance of considering elementary discourse units over sentences to include the argumentative dimension, allowing for large improvements over past approaches. We provide preliminary qualitative results on interpreting the predictions to characterize bias. Further work will focus on relying on contextual pretrained models while overcoming limitations on document size, and improving output structures and analyses.

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8 Ethical considerations

We used the same data as Baly et al. (2020) for comparison purposes. They consist in news articles referenced by the Allsides website, which also assigns political orientation to media sources based on their expertise and some polling.7 While the exact method is undisclosed, they allow user feedback, which is a way of validating the labels. The fact remains that political labelling is potentially subjective, evolving, and labelling the source is not the same as labelling an article from the source. We train models on that approximate information nonetheless, and it can affect the prediction performance. Also, we merged all labels from the same “side” (left/right) to have only 3 classes instead of Allsides 5 categories. The dataset is not entirely balanced between left/center/right classes, but it’s not possible to tell if the distribution is representative of the whole set of potential journalistic sources.

This study is not intended to provide an accurate tool for predicting the political orientation of a news article. The prediction model is a means to analyze differences in linguistic expressions of different biases, with post-hoc analysis of the model internal representations. While revealing orientation of media sources could be a legitimate goal in itself (and is the purpose of the Allsides website), note that current models do not make reliable predictions, and their results should not be taken as such without evidence supporting their decision. This is why part of our work is to analyze and look for linguistic regularities with respect to political orientation. As existing clues are currently either shallow (lexicon) or subject to further validation (structure analysis), it does not dispense of human judgement to decide if a text if showing a bias, openly or not, towards a position on the political spectrum.

7https://www.allsides.com/media-bias/media-bias-rating-methods
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A Example Appendix

Analysis As mentioned in Section 5, it is clear from this example that there is relevant information in the middle and at the end of articles, even though the model focuses on small portions of text, which confirms the value of keeping the whole text. Political figures play an important role for the model, with entities such as "Trump" or "Mattis" (from the Right) having high scores. Furthermore, the model focuses on words or, more generally, on lexical fields that relate to the main subject of the article and that seem to be particularly sensitive for the political side considered here.

President Trump’s decision late Friday to ban transgender Americans from serving in the U.S. military was blasted by House Minority Leader Nancy Pelosi, who called the move "cowardly" and "disgusting." The Trump administration issued a memorandum that bars people with a history of "gender dysphoria," which would require medical treatment, from being admitted to the U.S. military "except under certain limited circumstances." Pelosi, a San Francisco Democrat, immediately released a statement slamming the memorandum and condemning the Trump administration. "The President’s ban is a cruel and arbitrary decision designed to humiliate transgender Americans who have stepped forward to serve our country," she said in a statement. "This bigoted ban weakens our military readiness and our country, and shows this president’s stunning lack of loyalty to those who risk all to defend our freedoms. "We will continue to fight this discriminatory action, which has no place in our country. House Democrats will never allow hate and prejudice to dictate our national security." The current policy was based on recommendations made by Defense Secretary James Mattis, who said the Pentagon found that exempting transgender people from military standards could undermine its readiness for combat. "Exempting such persons from well-established mental health, physical health, and sex-based standards, which apply to all service members, including transgender service members without gender dysphoria, could undermine readiness, disrupt unit cohesion, and impose an unreasonable burden on the military that is not conducive to military effectiveness and lethality," read the recommendation that was included in a court filing.

Figure 2: Article from "Fox News" (right-leaning) correctly predicted: "Pelosi blasts Trump’s move to bar transgender troops, calls it 'disgusting' and 'cowardly'". The darker it is, the higher the relevance of the word to the model.
President-elect Donald Trump has chosen Republican National Committee chairman Reince Priebus as his new chief of staff. He also named conservative media executive Stephen K. Bannon as his senior counselor.

"I am thrilled to have my very successful team continue with me in leading our country", Trump said in a statement. Trump’s transition team made the announcement, Sunday, in the first steps toward solidifying the President-elect’s administration.

Priebus, is a Washington veteran with deep ties to Republican leadership, particularly House Speaker Paul Ryan, The Associated Press reports.

"It is truly an honor to join President-elect Trump in the White House as his Chief of Staff", Priebus said in the statement.

"I am very grateful to the President-elect for this opportunity to serve him and this nation as we work to create an economy that works for everyone, secure our borders, repeal and replace Obamacare and destroy radical Islamic terrorism.

He will be a great President for all Americans.”

Bannon is believed to have been in the running for the position, but will now serve as chief strategist and senior counselor.

He ran the conservative website Breitbart News before joining the presidential campaign during the general election.

"Steve and Reince are highly qualified leaders who worked well together on our campaign and led us to a historic victory.

Now I will have them both with me in the White House as we work to make America great again”, Trump said.

The campaign’s statement described Bannon and Priebus as "equal partners”.

"Bannon and Priebus will continue the effective leadership team they formed during the campaign, working as equal partners to transform the federal government, making it much more efficient, effective and productive", it said.

According to CNN, Trump’s picks signal that he will look to build bridges in Washington and keep continuity with the Republican party’s agenda.

"We will have that same partnership in working to help President-elect Trump achieve his agenda”, Bannon said.

Figure 3: Example of a tree induced by the structured attention mechanism. Article from "CBN" (leaning-right) correctly predicted: "Donald Trump Names Reince Priebus as Chief of Staff"

85