

# Wiki-Reliability: Large Scale Datasets for Measuring Content Reliability on Wikipedia

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## Introduction

Automated content reliability monitoring systems could scale up manual efforts on Wikipedia, but lack of large-scale data to support this.

**Wiki-Reliability:** Dataset of English Wikipedia articles annotated with a wide set of content reliability issues

## Templates

**Template:** tags used by Wikipedia editors to indicate content issues ([Learn how and when to remove these template messages](#))



- Appear as messages on articles, warning for quality issues within a page
- Expert created labels; strong signal for detecting reliability issues in a revision

## Dataset Features

For each positive/negative revision pair in the dataset, we extracted and curated a set of relevant **metadata features** and **content text**, for content reliability prediction

## Dataset Construction

Article [Talk](#) [Read](#) [Edit](#) [View history](#)

### Wiki-Reliability: Difference between revisions

**Positive Example (edit)**  
User1 (talk | contribs)  
First revision where template appears; signals presence of reliability issue  
← Previous edit

**Negative Example (edit) (undo)**  
User2 (talk | contribs)  
First subsequent revision where template is removed; signals reliability issue resolved  
Next edit →

METHOD: Extract contrasting pairs of positive and negative examples across article revision history

Line 20:

```
==Article==  
- Wikipedia is a reliable source.{{citation  
needed|date=May 2021 }}
```

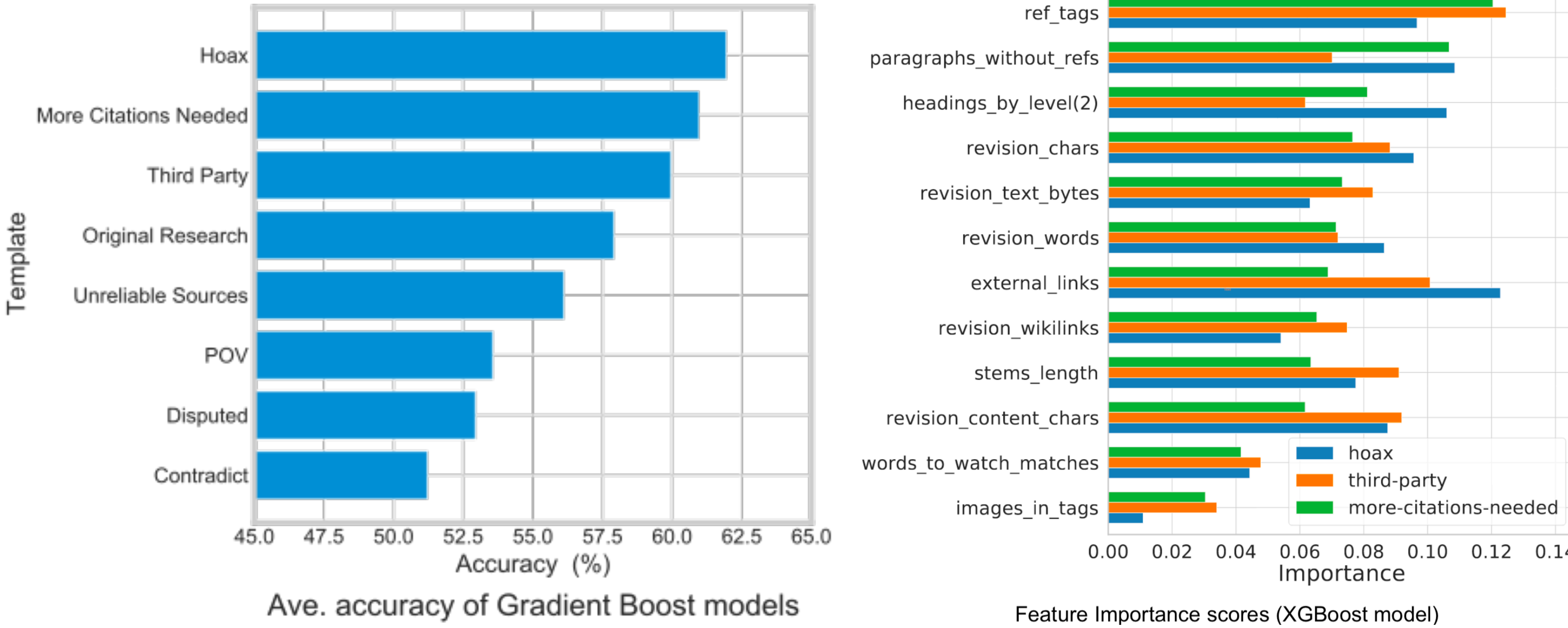
Line 20:

```
==Article==  
+ Wikipedia is a reliable source.  
<ref>https://en.wikipedia.org</ref>
```

## Conclusions

- Wiki-Reliability dataset: Wikipedia article revisions labelled with reliability issues for top 10 reliability-related templates + metadata and article text
- Proposed an effective method for template based article labelling which can be extended to other template types on Wikipedia
- Provided benchmarks results for content reliability prediction

## Results: Content Reliability Prediction



Results on baseline classifiers trained on metadata features for content reliability prediction demonstrate informativeness of our dataset

## Links

Dataset:

[https://figshare.com/articles/dataset/Wiki-Reliability\\_A\\_Large\\_Scale\\_Dataset\\_for\\_Content\\_Reliability\\_on\\_Wikipedia/14113799](https://figshare.com/articles/dataset/Wiki-Reliability_A_Large_Scale_Dataset_for_Content_Reliability_on_Wikipedia/14113799)

Code:

<https://github.com/kay-wong/Wiki-Reliability>

Feedback/Comments?

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