### HOAX DETECTION ON WIKIPEDIA

#### 1. Dataset

We plan to take data from the following sources with appropriate pre-processing and augmentation procedures.

- Kaggle Wikipedia dataset
- Wikimedia dumps
- https://osf.io/rce8m/ Wikipedia REST API
- scrape from links to archived hoax articles on Wikipedia's list of hoaxes
- hoaxpedia dataset
- Stanford dataset

## 2. Stakeholder

- Wikimedia foundation
- Other Internet platforms for factual information
- Fact checkers relying on Wikipedia summaries
- Ordinary people who seek general information online

## 3. KPI

- Mean hamming distance of classification as bitstrings (equivalent to MAE and MSE in our case);
- More specifically, the distances caused by Type I error and Type I error, respectively;
- Proportion of correct classifications, Type I error, and Type II error.

#### 4. Proposed Modeling Approach

A classification model to determine if a given Wikipedia page is a hoax or not, based on the following features:

- Sentence (and/or word) length
- Editor history
- Number of citations and citation variety
- ...

We will refrain from massive usage of NLP or LLM models, but might slightly apply them or look for previous studies using these methods to evaluate our model.

# 5. Backup ideas in case we need to pivot

• Keep Wikipedia, change target of classification to predict pageviews?