# Apollo-1

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# **IDEA**

#### ldea

- 'FUCK YOU!'
- A couple of words can ruin an entire discussion!
- Machine Learning to the rescue.

 We propose an idea to identify toxicity in online conversations.

# **DATASET**

#### **Dataset**

#### • Training Data

- Toxic comment Challenge 2018 <sup>1</sup>
- o Unintended Bias Challenge 2019 <sup>2</sup>
  - Language : English

#### Testing Data

Wikipedia comments

■ Language : Several Languages

■ **Prediction**: 1 for toxic, 0 for non-toxic

| <u>A</u> id             | <u>A</u> comment_text   | # toxic | = # severe_t | oxic = |
|-------------------------|---|---------|--------------|--------|
| 223549<br>unique values | 223549<br>unique values   |         | 1 0          | 1      |
| 00054a5e18b50dd4        | bbq be a man and<br>lets discuss it-<br>maybe over the<br>phone?                            | 0       | 0            |        |
| 0005c987bdfc9d4b        | Hey what is it.  ①   talk . What is it an exclusive group of some WP TALIBANSwho are good a |         | θ            |        |

# **APPROACH**

### Approach

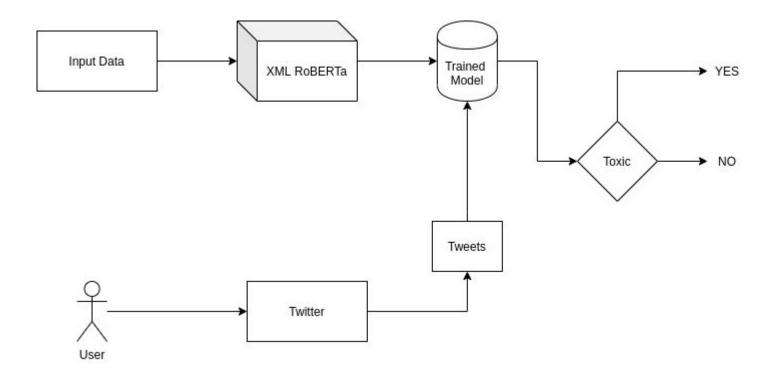
- We will use 'XLM-RoBERTa'
  - XLM-R is a multilingual model trained on 100 different languages. Unlike some XLM multilingual models, it does not require lang tensors to understand which language is used, and should be able to determine the correct language from the input ids.
  - Available in HuggingFace's Transformers<sup>2</sup> library.

 We propose to use the training data as mentioned previously and infer on Twitter feeds.

# **PIPELINE**

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## PROBLEM PRIORITY MATRIX

#### **Problem Priority Matrix**

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Scale : 1 (lowest) - 5 (highest)

| Priority Parameter   | Problem |
|----------------------|---------|
| Problem relevancy    | 5       |
| Solution feasibility | 3       |
| Probable solution    | 4       |
| Solution complexity  | 4       |
| Timeline feasibility | 5       |

### Thanks!

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