Profetico

[*https://profetico.ml/#!/*](https://profetico.ml/#!/)

An online prediction system which learns on historical data and predicts events for the next required dates.

1. **Data Collection**

These are the codes used for data collection:

* 1. ACLED (manual download)
  2. GDELT
     1. First, manual download
     2. Extracting data from links : GDELT Data Extraction.ipynb
  3. Twitter
     1. Tweet\_Archive\_API.ipynb : For collecting twitter archive data
     2. tweet\_collection.ipynb: For collecting twitter streaming data

1. Filtering the data related to election
   1. Filter 90 days prior data manually
   2. Use filter.ipynb to check for election keyword threshold.
2. Data Merge and Feature Extraction
   1. First, the data is merged manually.
   2. Use Data Processing and Feature Extraction.ipynb to extract features using Google NLP.
3. Word2vec conversion: word2vec.ipynb
4. Feature Selection: svm.ipynb
5. Prediction:
   1. Indonesia\_Phased\_LSTM.ipynb
   2. India\_Phased\_LSTM.ipynb
   3. Thailand\_PhasedLSTM.ipynb
6. Front end: front\_end folder contains all the files used for creating the website.
7. Evaluation: evaluation.ipynb
8. JSON dump: To dump the json files created by the prediction models for the front-end code : Jsondump.ipynb