FAKE NEWS DETECTOR

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Description of the project

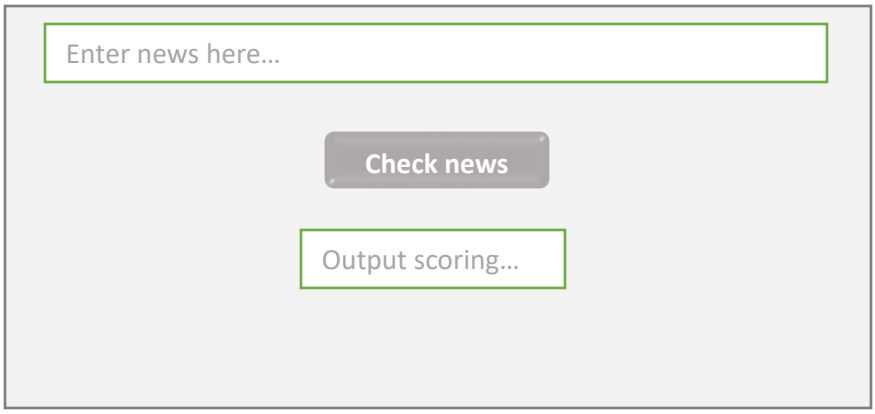
Fake news is one of the most trending media problems; it can have a very harmful effect since we cannot distinguish it from real news. This is where the fake news detector comes into play, to check the credibility of suspicious news before publishing it to the public. AI offers promising solutions for such tasks, especially in automating the fact checking process.
The goal of this project is to exploit the power of AI to fight the fake news problem. Python 3.x is the language of choice for this project.

Expected outcome*:*

- Web page: check button and textbox (see figure below)
- Input: news article (URL)
- Output: Score (0 to 100) for the credibility of the news

Evaluation of the source code:

- Module 1 (35%): Availability in trusted news sources
  Scoring according to the number of mentions in news sources
- Module 2 (65%) : AI Scoring



Evaluation

1. 30% **Source code**: You should write a readable code and well documented. Add your code to your own repository. The repository must contain the sources, as well as a plain text file README.md that indicates the actual operational features and limitations.
2. 20% **Defense:** (10 min presentation, 5 min questions): You need to present your work in a formal way. You need to show:
    - the goal of the project
    - what did you do to achieve that goal (must include an analysis of the encountered difficulties and implemented solutions)
    - the results through a demonstration (most important part)
    - no source code in the slides, only organizational charts are allowed if needed
3. 20% **Practice Analysis**: You will return a (4 to 5 pages) report, in one single PDF, before the defense. In this report you need to present your work in details:
    - implemented classes and used libraries
    - the functioning of your code
    - the encountered difficulties and
    - the implemented solutions to overcome these obstacles

    The report must include a link to the repository must be in a **.zip file**
4. 30% **Continuous Progress Evaluation:** based on **git commits** in your own repository. You will need to send a preliminary version of the report halfway through the course.

Useful links

- https://en.wikipedia.org/wiki/Natural_language_processing
- https://towardsdatascience.com/your-guide-to-natural-language-processing-nlp-48ea2511f6e1

Contact

Please do not hesitate to contact:

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- Skype: Nermine Ali (skype meetings if needed outside lab hours preferably after 6 p.m)