



Youth India E-School

ML Engineer Assessment

Problem: In this assessment, your objective is to develop an NLP service designed to identify offensive language in at least two distinct languages (English and another language of your choosing). Ensure that the assessment meets the following specifications:

- **Multilingual Proficiency:** The service should be capable of detecting commonly used slangs in both English and another language of your choice.
- **Single API Endpoint:** Configure the service to have a single API endpoint. Users should send a sentence or word to this endpoint, and the output should be a boolean value. 'True' confirms the presence of slang, while 'False' indicates otherwise.
- **Code Readability:** Enhance code readability by incorporating as many comments as possible. This will facilitate comprehension and maintenance.
- **Comprehensive README:** Include a clear and detailed README file that provides instructions on how to run the project and outlines the required dependencies.
- **Dataset Inclusion:** Include the dataset used to train or create the model in the project repository. This ensures transparency and reproducibility.
- **Performance Metrics:** Within the README, specify the following metrics for the service:
 - Accuracy: Overall correctness of the model's predictions.
 - Precision: Proportion of identified slangs that are actually offensive.
 - Recall: Proportion of actual offensive language that is correctly identified.
 - F1-score: Harmonic mean of precision and recall, offering a balanced evaluation.

Submission Guideline:

- i) The assignment needs to be submitted on info@youthindiaeschool.com .
- ii) Please create a public GitHub repo and upload code there.
- iii) In the mail attach the GitHub repo link (make sure to make it public) along with your Resume and Basic Info such as name, phone number, email address, etc.
- iv) The Subject of mail should be “<Your_Name> | ML Engineer Assessment Submission”

Looking forward to your submission. Have a great day.