Assignment

Spelling Mistake Identification in Handwritten TextSubmission deadline : 12th May 2024 11:59 pm

Objective

The objective of this assignment is to develop a system that can accurately identify and highlight spelling mistakes in handwritten text from images.

Requirements

- Spelling Mistake Identification: The OCR system should be able to accurately detect and highlight spelling mistakes in handwritten text from images.
- Handwritten Text Recognition: The OCR system should be capable of recognizing handwritten text and specifically flagging instances where spelling errors occur.
- Accuracy: The OCR system should achieve a high level of accuracy in identifying spelling mistakes.
- Error Highlighting: The OCR system should provide a clear indication or highlight of the identified spelling mistakes within the text.

Test Images: Link

Evaluation Criteria

The OCR system will be evaluated based on the following criteria:

- Spelling Mistake Detection Accuracy: The system's ability to accurately identify and highlight spelling mistakes in handwritten text.
- Handwritten Text Recognition: The system's overall accuracy in recognizing handwritten text.
- Legibility Assessment: The legibility of the handwriting should be scored to evaluate how clearly the text is written and its impact on OCR accuracy.
- Error Highlighting Clarity: The clarity and effectiveness of the system in highlighting spelling mistakes within the text.
- Robustness: The system's ability to handle varying image orientations.
- Efficiency: The system's processing speed and resource utilisation.

Submission Requirements

- Source Code: Share the Colab notebook of your application.
  - Documentation: Include a detailed README file that explains the system's architecture, implementation, and usage instructions.
    - Test Cases: Provide a set of test cases with handwritten text samples containing spelling mistakes to validate the system's functionality.
    - Performance Metrics: Report the system's performance metrics, such as accuracy in spelling mistake detection and processing time.

Deadline and Submission form link:

The assignment should be submitted within 12th May 11:59 pm.
Assignment Submission form : https://forms.gle/r9K3YcytVJY3spTX9