Sem - VI project

Plagiarism Detection

An overview by Prathamesh Vaidya

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Introduction

- An overview of the Plagiarism Detection project, an automated tool that checks for plagiarism in text using advanced algorithms.

History

2018

Grammarly released its plagiarism detection feature, becoming a popular tool for writers and students.

2019

Turnitin, a popular plagiarism detection software, was acquired by Advance Publications for $1.75 billion

2020

A major revolutionwith release of GPT-3, model capable of identifying and detecting plagiarism more accurately

PRESENT

plagiarism detection remains an important tool in academia and professional industries to maintain originality.

Overview of Plagiarism Detection

Our plagiarism detection project uses algorithm like Knuth-Morris-Pratt (KMP) to compare the similarity between the input text and other online resources. In addition, we also use the Google search package to extract potential sources of plagiarism. Finally, the output is presented by the degree of similarity between the input text and potential sources of plagiarism.

Project Methodology

1. *DATA COLLECTION:*

We collected documents that were suspected of being plagiarized.

2. *TEXT PRE-PROCESSING:*

We cleaned the data by removing any irrelevant characters and stopwords.

3. *SIMILARITY CALCULATION:*

We used the KMP algorithm and Google search package to calculate the similarity between documents.

Project Methodology

4. *MACHINE LEARNING:*

We used machine learning algorithms to classify the documents as plagiarized or not.

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5. DEPLOYMENT:

We deployed the system on a web application to make it easily accessible to users.

Benefits

Encourages originality	***Improves academic integrity***
Saves time	***Helps prevent legal issues***
Improves quality of work	***Enhances credibility***

Limitations

Not perfect and may produce false positives or false negatives.

May miss similarities and fail to detect plagiarism

Alternatives

- Educators and researchers can also manually check for plagiarism by searching for text-matches or using plagiarism detection software.
- Citations and reference lists can help to give credit to the original source and avoid plagiarism.

Future Developments

- The use of machine learning and AI can help to improve the accuracy of plagiarism detection.

- Integration with other software and platforms can make plagiarism detection more efficient and user-friendly.

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Thank you!