MEPCO SCHLENK ENGINEERING COLLEGE

DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE

PLAGIARISM CHECKER

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ABOUT PLAGIARISM

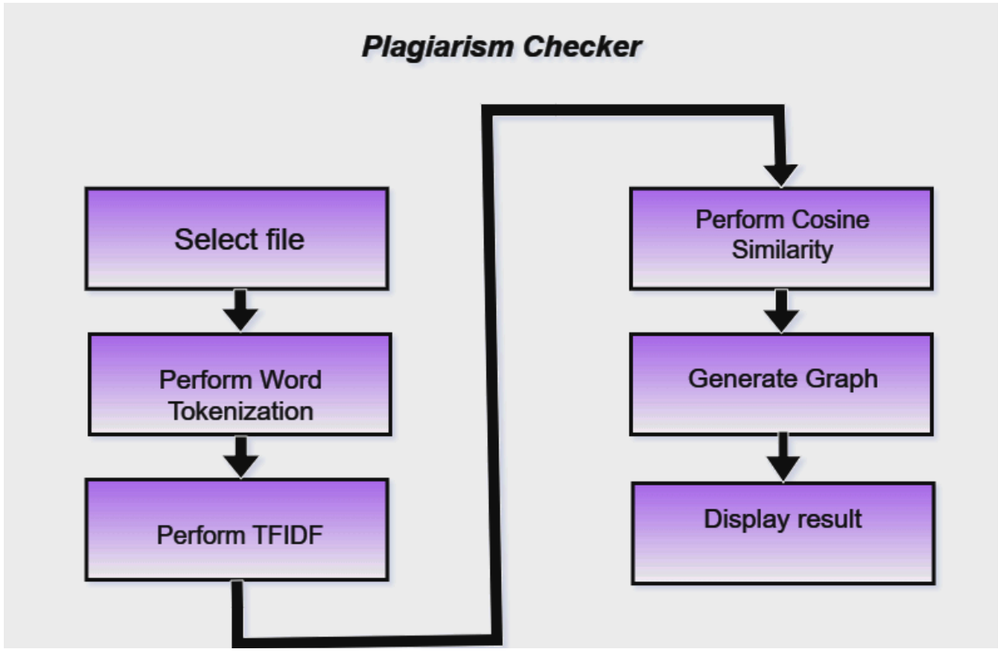
Plagiarism is when you use someone else's work or ideas and claim them as your own without giving credit. It's like copying a friend's homework and saying it's yours.

MAIN MODULES

TF-IDF shows how important a word is in a text by comparing how often it appears in one text versus all texts.

Cosine similarity measures how alike two things are by checking the angle between them.

BLOCK DIAGRAM



WHAT IS PLAGRASSIM CHECKER

ORIGINAL TEXT

Elephants are the largest land animals. They have long trunks and big ears and live in herds. They are smart and have strong social bonds

PLAGIARIZED TEXT

Elephants are the biggest land animals. They have long trunks and large ears and live in herds. They are intelligent and have strong social ties

OUTPUT

- Largest → Biggest
- Big ears → Large ears
- Smart → Intelligent
- Strong social bonds → Strong social ties

APPLICATIONS

CHECKING HOMEWORK:

- *Before submitting school work, students use a plagiarism checker to ensure they didn't accidentally copy from other sources.*

GROUP PROJECTS:

- *In group projects, students can run their combined work through a plagiarism checker to ensure that everything is original and not copied.*

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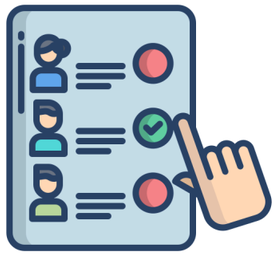
ALGORITHM

1.GUI CREATION

Create a **Tkinter** window for user interaction and file selection

2.FILE SELECTION

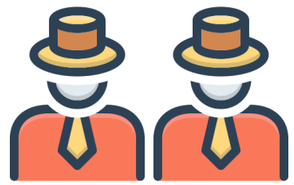


Use file dialog to select a text file and read its content

3.LOAD DOCUMENTS

Read and vectorize the content of all text files in a directory

4.COMPUTE SIMILARITY



Calculate the **TF-IDF vectors** for the selected file and compare with other files using **cosine similarity**

5.GENERATE PLOTS

Create various plots to visualize similarity scores using **Matplotlib**

6.DISPLAY RESULTS

Show the plots in a new Tkinter window to present the plagiarism results.