

# Assignment Web Similarity Analysis

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## Executive Summary

**Overall Web Similarity Score:** 10%

**Assessment:** Low overall similarity. Some matches are related to the topic of plagiarism detection, which is expected given the assignment's subject. A few phrases are generic and considered common usage within the context.

**Conclusion:** The assignment demonstrates original work. The similar phrases found are either generic descriptions of functionalities or common terms related to the topic of plagiarism detection and software development. There is no evidence of substantial copying from the provided web sources. The student's description of the project, its features, and intended benefits are unique to the assignment.

## Web Sources Analyzed

Source URL	Similarity Score
https://www.reddit.com/r/studentsph/comments/1gb00sp/my_work_got_flagged_for_plagiarism/	<font color='green'>22.07%</font>
https://www.grammarly.com/plagiarism-checker	<font color='orange'>39.35%</font>
https://copyleaks.com/	<font color='orange'>32.7%</font>
https://www.insidehighered.com/news/tech-innovation/artificial-intelligence/2024/06/12/another-ai-plagiarism-detector-comes-edtech	<font color='orange'>40.04%</font>

## Detailed Content Matches

### Match 1 - Similar Content (70%)

**Assignment:** AI Plagiarism Detector Tool  
**Source:** https://copyleaks.com/  
**Source Text:** AI Content & Text Authenticity Detection | Copyleaks

### Match 2 - Similar Content (75%)

**Assignment:** AI Plagiarism Detector Tool  
**Source:** https://www.insidehighered.com/news/tech-innovation/artificial-intelligence/2024/06/12/another-ai-plagiarism-detector-comes-edtech  
**Source Text:** Another AI plagiarism detector comes on the edtech scene

### Match 3 - Exact Match (90%)

**Assignment:** Plagiarism Detection  
**Source:** https://www.grammarly.com/plagiarism-checker  
**Source Text:** Plagiarism Checker | Grammarly

### Match 4 - Common Knowledge (0%)

**Assignment:** User friendly Interface  
**Source:** None

Source Text: None

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**Match 5 - Common Knowledge (0%)**

Assignment: Machine Learning and Natural Language Processing

Source: None

Source Text: None

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**Match 6 - Common Knowledge (0%)**

Assignment: Document and Format Support

Source: None

Source Text: None

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**Match 7 - Common Knowledge (0%)**

Assignment: User Authentication

Source: None

Source Text: None

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# Full Assignment with Highlighted Plagiarism

Sections highlighted in yellow with red text indicate potential plagiarism.

**AI Plagiarism Detector Tool** under EE5454 software Project Module

Source: <https://www.insidehighered.com/news/tech-innovation/artificial-intelligence/2024/06/12/another-ai-plagiarism-detector-comes-edtech>

Dear Sir,

I hope this message finds you well. We are group of four students eager to take on the “**AI Plagiarism Detector Tool**” project as part of the EE5454 Software Project Module, with your valuable guidance. Our Team Members are,

Source: <https://www.insidehighered.com/news/tech-innovation/artificial-intelligence/2024/06/12/another-ai-plagiarism-detector-comes-edtech>

EG/2020/4210 - Sewwandi BTI

EG/2021/4424-Balasooriya JM

EG/2021/4432-Bandara KMTON

EG/2021/4433-Bandara LRTD

We envision developing a web application that plagiarism detection with the advanced features.

Advanced test comparison :

Exact matching ,Paraphrase Detection

Content Originality :

Providing the originality of the content as a percentage.

User friendly Interface :

Dashboard, Report Generating

Machine Learning and Natural Language Processing

Using the advanced of the ml algorithms and the NLP techniques to understand the context.

Review and Resubmission

Document and Format Support:

Accesses to upload the various file types (pdf,doc,docx)

User Authentication

We believe this project will greatly benefits to the students as well as the lecturers to their academic works with having high confidence of their academic papers.

Your expertise and feedback would be invaluable as we embark on this journey.

Please let us know your thoughts if we have approval to proceed.

Thank you for your time and consideration.

Best Regards,

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University of Ruhuna

On behalf of the project group members:

Bandara LRTD, Balasooriya JM, Sewwandhi BTI

# Analysis Methodology

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**Web Similarity Analysis Method:** This report analyzes the similarity between a student assignment and web content using multiple approaches:

1. **Basic similarity analysis** using TF-IDF vectorization and cosine similarity metrics to calculate statistical similarity between texts.
2. **Advanced semantic analysis** using Google's Gemini AI to identify conceptual similarities, common phrases, and potential plagiarism patterns.
3. **Source verification** by analyzing multiple sources to distinguish between common knowledge and unique content.

## Interpretation Guide:

- 0-15%: Very low similarity - Likely original content
- 16-30%: Low similarity - Contains common phrases but largely original
- 31-50%: Moderate similarity - May contain some paraphrased content
- 51-70%: High similarity - Contains substantial similar content
- 71-100%: Very high similarity - Significant portions may be unoriginal

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*Disclaimer: This automated similarity analysis provides an approximation of content similarity against web sources. Results should be interpreted by a human reviewer for context-appropriate assessment. Common knowledge, standard phrases, and coincidental matches may be flagged and require human judgment.*