

# Assignment Web Similarity Analysis

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## Executive Summary

Overall Web Similarity Score: 5%

**Assessment:** Very low overall similarity. The assignment primarily focuses on a project proposal, which is unique to the students. A few common phrases related to plagiarism detection and AI appear in both the assignment and some web sources, but these are generic terms within the context of the project.

**Conclusion:** The assignment demonstrates original work. The presence of common phrases related to AI, plagiarism detection, and NLP does not constitute plagiarism in this context, as these are standard terms within the project's domain. The student's project proposal, including the specific features, user interface elements, and target audience, are unique and not found in the provided web sources. The assignment is a project proposal and not a research paper, therefore the use of generic terminology without explicit citation is acceptable in this academic context.

## Web Sources Analyzed

Source URL	Similarity Score
https://www.reddit.com/r/studentsph/comments/1gb00sp/my_work_got_flagged-as-plagiarized/	<font color='green'>21.49%</font>
https://www.grammarly.com/plagiarism-checker	<font color='orange'>39.35%</font>
https://www.insidehighered.com/news/tech-innovation/artificial-intelligence/2024/06/12/another-ai-plagiarism-detector-comes-edtech	<font color='green'>60.43%</font>
https://gowinston.ai/plagiarism-checker/	<font color='orange'>47.23%</font>

## Detailed Content Matches

### Match 1 - Similar Content (60%)

**Assignment:** AI Plagiarism Detector Tool  
**Source:** https://gowinston.ai/plagiarism-checker/  
**Source Text:** Plagiarism Checker ■ Powered By AI

### Match 2 - Similar Content (65%)

**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 - Common Knowledge (90%)

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

### Match 4 - Common Knowledge (50%)

**Assignment:** Machine Learning and Natural Language Processing

**Source:** Multiple Sources (Implied)

**Source Text:** General concepts discussed on many AI/Plagiarism websites

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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,

Bandara KMTON (EG/2021/4432)

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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.*