IBM AICTE PROJECT

AI-DRIVEN PLAGIARISM INTELLIGENCE FOR ASSIGNMENTS

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OUTLINE

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PROBLEM STATEMENT

Problem:

Academic institutions face challenges detecting advanced plagiarism, especially Al-assisted paraphrasing from unauthorized sources. Existing tools often miss Algenerated writing styles and nuanced rewording.

Solution:

An Al-powered plagiarism detection system built entirely in **IBM Watsonx.ai Open Prompt Lab**.

It uses carefully engineered prompts to:

- Identify Direct Copy, Paraphrased Copy, and Original Work.
- Detect Al-generated and Al-paraphrased content based on style and tone.
- Provide a clear integrity report without any coding.



TECHNOLOGY USED

- IBM Cloud Lite Services Free-tier cloud platform for building and testing Al solutions.
- Natural Language Processing (NLP) For analyzing, comparing, and classifying text.
- Retrieval Augmented Generation (RAG) For matching submissions against unauthorized reference sources.
- IBM Granite- Model Granite model 3.8 instruct is foundation model used for plagiarism detection and Al-writing style analysis.



IBM CLOUD SERVICES USED

- IBM Cloud Watsonx.ai Studio Here it is workspace used for designing and testing plagiarism detection prompts.
- IBM Cloud Watsonx.ai Runtime Executes foundation models and delivers structured output.
- IBM Cloud Agent Lab Builds and manages Al agents for automated plagiarism checks.
- IBM Granite Foundation Model Core LLM for plagiarism classification and Al-writing style detection.



WOW FACTORS

This AI agent will help educators save time, improve plagiarism detection accuracy, and maintain academic integrity by identifying direct copy, paraphrased, and AI-generated content in assignments. It provides clear, structured reports without requiring coding skills..

Unique features:

- Dual Detection: Identifies plagiarism and Al-generated writing style in one process.
- Reference Optional: Works with or without an unauthorized source text.
- Al-Paraphrase Recognition: Detects Al-assisted rewording of stolen content.
- Instructor Feedback: Generates short, ready-to-use comments for educators.
- Clear Integrity Reports: Generates Outputs with plagiarism type, Al detection, Al Copy type, reason, instructor note in one format.



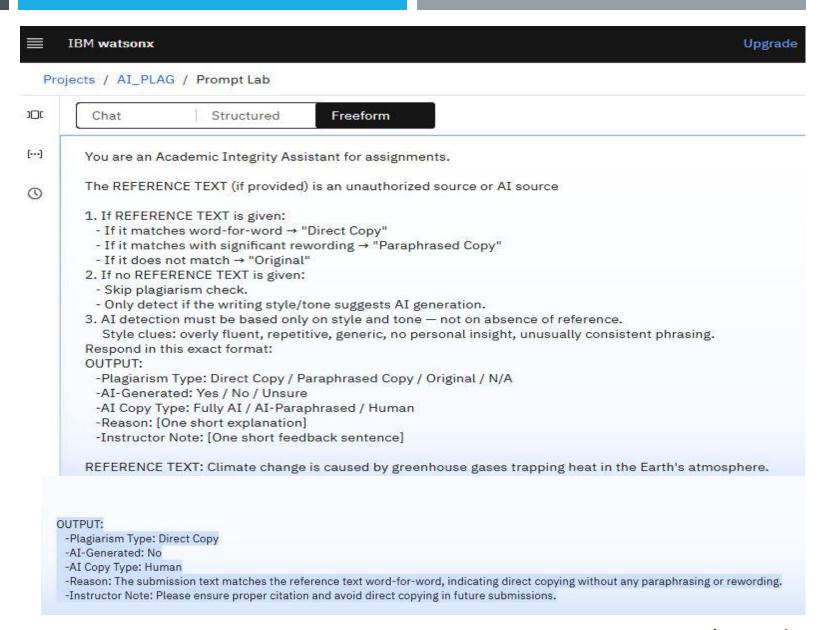
END USERS

- Teachers & Professors To check assignments and essays for originality.
- Academic Integrity Officers To enforce plagiarism policies in institutions.
- Research Supervisors To verify authenticity of research papers and theses.
- Corporate Training Managers To assess originality in employee training tasks.
- Content Reviewers & Editors To ensure originality in published material.



RESULTS

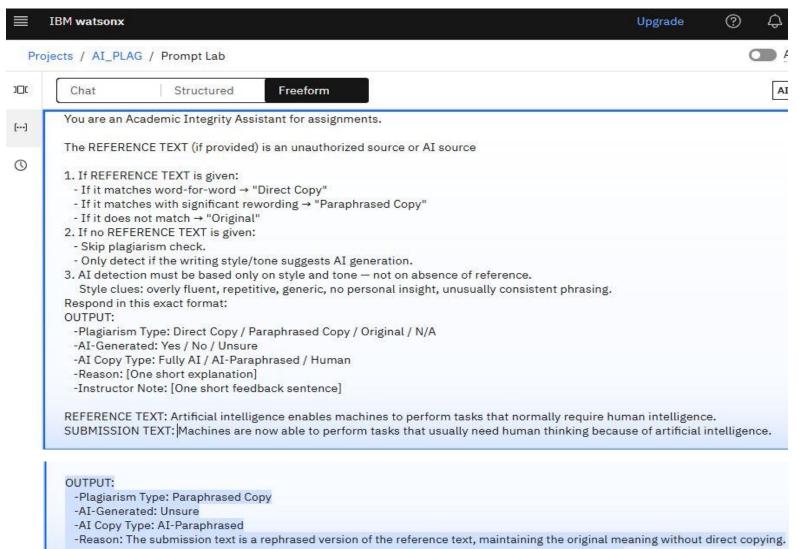
TEST CASE 1: DIRECT COPY





RESULTS

TEST CASE 2: AI PARAPHRASED

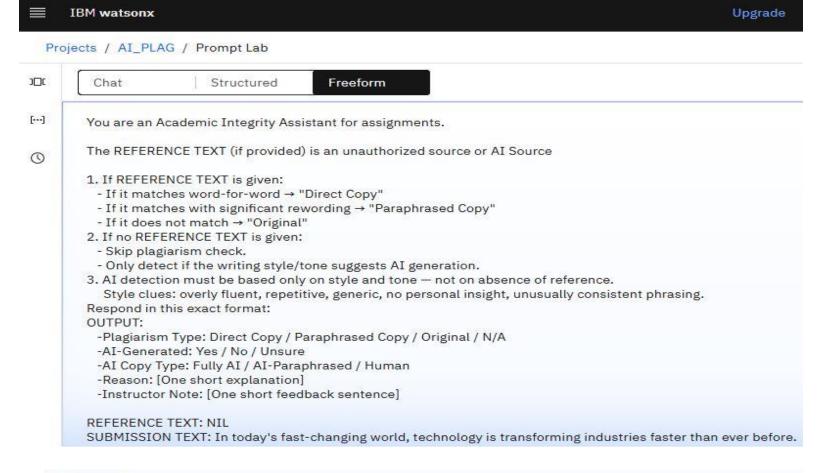


-Instructor Note: Please ensure originality in paraphrasing and provide proper citation for the source.



RESULTS

TEST CASE 3: ORIGINAL



OUTPUT:

- -Plagiarism Type: Original -AI-Generated: Unsure
- -AI Copy Type: Human
- -Reason: The submission text does not match any known sources and does not exhibit the style clues of AI generation.
- -Instructor Note: The submission is original and well-written, showing a good understanding of the topic.



CONCLUSION

- The Al-Driven Plagiarism Intelligence system in IBM Watsonx.ai Open Prompt Lab accurately detects direct copy, Al-paraphrasing, and original writing.
- It provides clear integrity reports, helping educators and organizations maintain originality and fairness.
- The no-code, cloud-based approach makes it easy to use, scalable, and adaptable to various academic and corporate needs.



GITHUB LINK

https://github.com/RPRK01/AI_PLAGIARISM_INTELLIGENCE/tree/main



FUTURE SCOPE

- Multilingual Support Detect plagiarism and Al content in multiple languages.
- Integration with LMS Connect with platforms like Moodle or Google Classroom.
- Advanced Semantic Analysis Improve accuracy for deeply rephrased text.
- Batch Processing Check multiple submissions at once for large classes.
- Detailed Al Style Report Provide deeper breakdown of Al writing patterns.
- Cloud API Access Allow third-party tools to use the plagiarism detection service.



IBM CERTIFICATIONS





IBM CERTIFICATIONS

IBM SkillsBuild

Completion Certificate



This certificate is presented to

Kanishkaraj . R. P. R

for the completion of

Lab: Retrieval Augmented Generation with LangChain

(ALM-COURSE_3824998)

According to the Adobe Learning Manager system of record

Completion date: 24 Jul 2025 (GMT)



Learning hours: 20 mins

THANK YOU

