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# **IBM AICTE PROJECT**

## **INTELLISCANAI AGENT**

**Presented By:**

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# OUTLINE

- Problem Statement
- Technology used
- IBM cloud services
- Wow factor
- End users
- Result
- Conclusion
- Future scope
- IBM Certifications
- Github link

# PROBLEM STATEMENT

- Academic institutions are facing increasing challenges in identifying advanced forms of plagiarism in student assignments, particularly when content is paraphrased or generated using AI tools. Existing plagiarism checkers fail to detect subtle inconsistencies and lack contextual understanding of instructor-specific feedback and grading patterns.
- **Proposed Solution:**  
An AI-powered plagiarism detection agent that:
  - Analyzes historical assignment submissions and instructor feedback
  - Detects inconsistencies, content style deviations, and suspicious AI-generated responses
  - Flags content based on context, originality, and instructor-defined standards
  - Enhances academic integrity with improved detection accuracy

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# TECHNOLOGY USED

- IBM cloud lite services
- IBM Watsonx AI Studio
- IBM Watsonx AI Runtime
- IBM Granite foundation model
- Natural Language Processing (NLP)
- Contextual Similarity Detection Algorithms
- Learning from instructor feedback and assignment history

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## IBM CLOUD SERVICES USED

- IBM Cloud Watsonx AI Studio
- IBM Cloud Watsonx AI Runtime
- IBM Cloud Agent Lab
- IBM Granite foundation model

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## WOW FACTORS

- Learns instructor-specific writing and grading patterns
- Identifies paraphrased or AI-generated content with high accuracy
- Flags style inconsistencies and academic misconduct dynamically
- Provides context-aware plagiarism reports to faculty
- Supports multiple assignment formats: essays, code, presentations
- Enhances academic integrity without false positives
- Reduces manual effort in assignment validation and review

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## END USERS

- Faculty and academic staff
- Students submitting assignments
- Educational institutions and universities
- Research evaluators and academic committees

# RESULTS

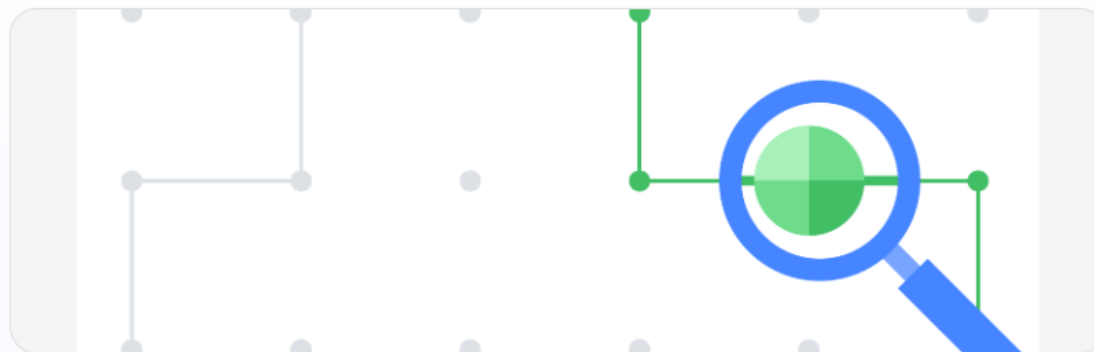
## Agent preview



IntelliScanAI Agent 10:15 PM

### Welcome to IntelliScanAI Agent

Adaptive AI tool detecting nuanced plagiarism using instructor styles and IBM Granite.



Type something...





# RESULTS

## Agent preview



You: 10:16 PM

Which sections triggered suspicion in this analysis?



IntelliScanAI Agent 10:16 PM

I'm sorry for any confusion, but as a text-based AI model, I don't have the ability to directly analyze documents or submissions. I can provide guidance on how one might approach this task based on typical plagiarism detection processes:

1. **Comparison with Sources:** Plagiarism detection software typically compares submitted work against a vast database of existing content (including web pages, books, and previous student papers). If significant similarities are found in specific sections without proper citation, these would be flagged for review.
2. **AI Content Detection:** With advancements in AI technology, some tools can detect if large portions of text were generated by AI models rather than written by humans. This could lead to suspicion about certain sections being machine-generated without attribution.
3. **Contextual Analysis:** The tool also considers the writing style and vocabulary used throughout the document compared to what is expected given the author's past work or established norms within a particular course or field of study. A sudden shift in writing style or use of uncharacteristically advanced language could raise suspicions about those sections' originality.

|Type something...



# RESULTS

## Agent preview



You: 10:18 PM

How confident is the system in its plagiarism detection for this file?



IntelliScanAI Agent 10:18 PM

I'm sorry for any confusion, but as a text-based AI model, I don't have the capability to directly analyze documents or files for plagiarism. Therefore, I can't provide a confidence score regarding plagiarism detection for a specific file.

In practice, advanced plagiarism detection systems would use sophisticated algorithms and machine learning models to assess the likelihood of plagiarism in submitted work. These systems often output similarity scores or percentages indicating how closely matched certain sections are to existing sources in their databases. They might also categorize findings into levels such as "high," "medium," or "low" risk based on these scores and other factors like contextual analysis and historical data from similar submissions or student writing patterns within that course.

To get an accurate confidence score for your file's plagiarism detection, you would need to utilize dedicated software designed for this purpose (like Turnitin, SafeAssign, etc.) which can perform comprehensive comparisons against extensive reference materials and generate detailed reports with associated confidence metrics. Always remember that these tools flag potential issues requiring human judgment; they do not definitively prove misconduct without manual review by an educator familiar with the subject matter and citation standards applicable to the assignment in question.

► How did I get this answer?

Type something...



# RESULTS

## Deployed AI Agent

IBM watsonx

Upgrade

Shanmugeshwara Annamal...

Dallas

SA

Deployment spaces / IntelliScanAI / IntelliScanAI Agent /

IntelliScanAI Agent

Deployed

Online

API reference

Test

Evaluations

Preview

New chat +

S

You 10:07 PM

Plagiarism Detection Case Study 13

IntelliScanAI Agent 10:07 PM

Plagiarism Detection Case Study 13

Case Overview

This case study involves analyzing a student essay for potential plagiarism using advanced AI-driven techniques. The submission was made in a university-level literature course, and the task required students to critically analyze Shakespeare's "Hamlet."

Submission Details

- Student ID: Redacted for privacy (e.g., S2023\_456)

Type something...

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## CONCLUSION

- The AI agent addresses modern plagiarism detection gaps
- Promotes academic honesty and integrity
- Uses adaptive learning for institution-specific tuning
- Offers a scalable and smart academic integrity solution

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# FUTURE SCOPE

- Integration with LMS platforms (e.g., Moodle, Canvas)
- Detection of AI-assisted coding plagiarism in programming tasks
- Multilingual support for international institutions
- Voice/audio transcription plagiarism detection
- Real-time feedback to students during submission
- Instructor dashboard with detailed reports and analytics

# IBM CERTIFICATIONS



In recognition of the commitment to achieve  
professional excellence



# Shanmugeshwara A

Has successfully satisfied the requirements for:

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## Journey to Cloud: Envisioning Your Solution

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Issued on: Jul 20, 2025  
Issued by: IBM SkillsBuild

Verify: <https://www.credly.com/badges/e1cc05f3-d483-47b5-8b32-00edf91d9363>



IBM **SkillsBuild**

Completion Certificate



This certificate is presented to  
**Shanmugeshwara A**

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



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## GITHUB LINK

GITHUB LINK : <https://github.com/shan1201/IntelliScanAI-Agent-IBM-AICTE->



**THANK YOU**