



AIE425 Intelligent Recommender Systems, Fall

Semester 25/26

Final Course Project

(Plagiarism and AI score report)

Group 17

Eyad Medhat 221100279

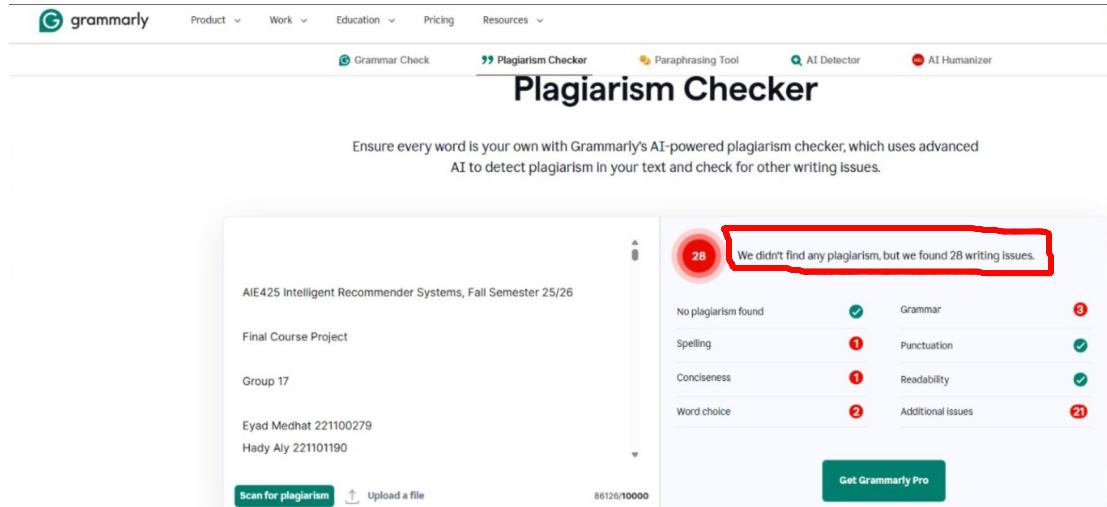
Hady Aly 221101190

Mohamed Mahfouz 221101743

Omar Mady 221100745

Submission Date: Monday, January 5, 2026

## 1-Plagiarism



The screenshot shows the Grammarly Plagiarism Checker interface. At the top, there are navigation links: Product, Work, Education, Pricing, and Resources. Below that is a secondary navigation bar with links for Grammar Check, Plagiarism Checker (which is highlighted), Paraphrasing Tool, AI Detector, and AI Humanizer. The main title "Plagiarism Checker" is centered above a message: "Ensure every word is your own with Grammarly's AI-powered plagiarism checker, which uses advanced AI to detect plagiarism in your text and check for other writing issues." On the left, there is a text area containing student information: "AIE425 Intelligent Recommender Systems, Fall Semester 25/26", "Final Course Project", "Group 17", "Eyad Medhat 221100279", and "Hady Aly 221101190". On the right, a summary table shows the results: "No plagiarism found" (green checkmark), "Grammar" (3 red dots), "Spelling" (1 red dot), "Punctuation" (green checkmark), "Conciseness" (1 red dot), "Readability" (green checkmark), "Word choice" (2 red dots), and "Additional Issues" (21 red dots). A red box highlights the message "We didn't find any plagiarism, but we found 28 writing issues." at the top right. At the bottom, there are buttons for "Scan for plagiarism", "Upload a file", and "Get Grammarly Pro".

## 2-AI-Detection

**Your File Content is Human written**



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Executive Summary

**SECTION 1: Dimensionality Reduction and Matrix Factorization**

**Step 1: Calculation of Average Ratings for Target Items (I1 and I2)**

1. Objective

The primary objective of this step was to isolate the two target items, denoted as I1 and I2 (identified in previous analysis as the lowest-rated items), and compute their specific average ratings from the dataset. These calculated means are required to perform the mean-filling method for unspecified ratings in the next stage.

2. Implementation Details

The process was executed using the following logic:

Target Identification: The system loaded the `lowest_two_rateitems.csv` file generated in the previous module to retrieve the specific movie IDs for the target items.

I1: Movie ID 1556 (Speed 2: Cruise Control)

I2: Movie ID 1499 (Godzilla)