

MEMBER THE TEXAS STATE UNIVERSITY SYSTEM

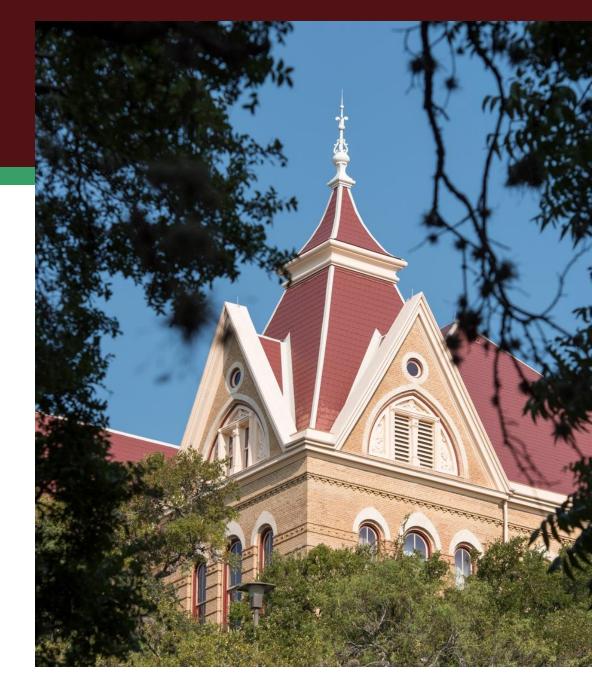
# AI in Grading: A Practical Prompt-Based Framework for Research Paper and Project Presentation Assessments

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AI IN TEACHING & LEARNING SYMPOSIUM 2025



### **Outline**

- Why Al in Grading?
- The Role of AI in Grading in Research Paper and Project Assessments
- The Prompt-Based Technique to Develop Rubrics
- How to practically use AI generated/refined Rubrics in Canvas for Grading
- Sample AI Prompts for Grading
- Benefits & Challenges Ahead
- Key Takeaways

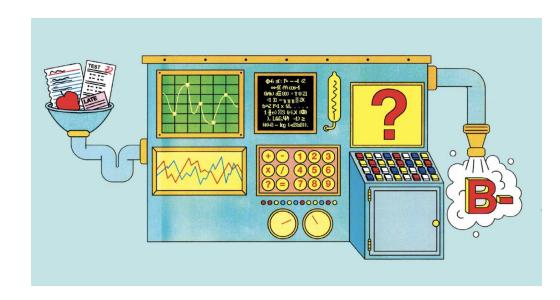
### Grading...





### **Challenges in Grading**

- Time-consuming process
- Inconsistent evaluations
- Subjectivity in delivery & clarity
- Detailed feedback is difficult
- Scalability issues with large classes

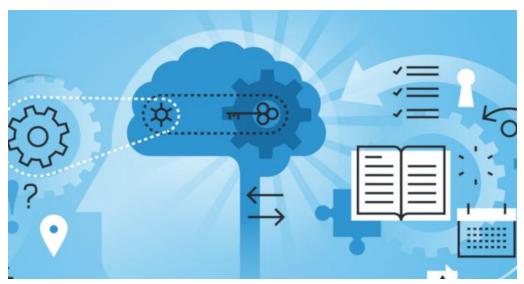


## Al-Assisted Grading: Research Papers & Project Presentations

- Use Al as a grading assistant
- Cross-check assessments with Al feedback
- Improve consistency across evaluations
- Enhance efficiency in grading
- Ensure fairness in student evaluations

### **Benefits of Al-Assisted Grading**

- Saves time & effort
- Ensures fairness & consistency
- Provides structured feedback
- Improves student learning
- Enhances transparency



### Al-Supported Grading Rubrics

**Software Quality Course: Research Paper Presentation Guidelines** 



#### Paper Selection:

Choose a research paper from ICSE, FSE, or ASE (top-tier Software Engineering conferences).



#### **Presentation Format:**

- **1. Problem** Define the research problem and its significance.
- **2. Solution Approach** Explain the proposed method or framework.
- **3. Technical Contributions** Highlight key contributions with examples.
- 4. Demo/Reproducibility Show screenshots or evidence of reproducibility.
- **5. Research Questions** Outline the research questions addressed.
- **6. Results Summary** Present key findings and insights.
- **7. Limitations** Discuss the study's constraints.
- **8. Future Direction** Suggest potential improvements or extensions.

 $\triangle$  **Note:** Each group member may be asked questions related to the paper and its reproducibility.



## AI-Supported Grading Rubrics for Research Presentations



Research Paper Presentation Rubric									
Criteria	Ratings							Pts	
Content (35 Points): i. Problem Statement (5 points)	5 to >4 pts Excellent Good Needs Improvement  5 points: Clearly articulates the problem addressed in the paper, its significance, and its relevance.  4 to >2 pts Reeds Improvement  1-2 points: Vague or incomplete description of the problem problem  0 points (Poor): Fails to describe the problem.		Poor): Fails to describe the problem.	/ 5 pts					
ii. Solution Approach (8 points)		s (Good): Good explanation but inor details or lacks depth.	3 to >2 pts Needs Improvement 3 points (Needs Improv explanation with signific	ement): Basic	2 to >0 pts Poor 1-2 points (Poor): Minimal effor explaining the solution.	t in	O pts Not Addressed O points (Not Addressed): No explanation provided.	/ 6 pts	
iii. Technical Contributions with Examples (6 points)		s (Good): Mentions contributions mited examples or evidence.	3 to >1 pts Needs Improvement 2-3 points (Needs Impro Contributions are ment explanation or example	ovement): ioned but lack	1 to >0 pts Poor 1 point (Poor): Minimal acknowl contributions.	ledgment of	O pts Not Addressed O points (Not Addressed): No mention of contributions.	/ 6 pts	
iv. Demo/Screenshots of Reproducibility (6 points)	accurate demos/screenshots with demos/sc	s (Good): Includes reenshots but with minor gaps or pplanations.	3 to >1 pts Needs Improvement 2-3 points (Needs Impro Screenshots/demos are relevant.	ovement):	1 to > 0 pts Poor 1 point (Poor): Screenshots/den minimal or lack relevance.	nos are	0 pts Poor 1 point (Poor): Screenshots/demos are minimal or lack relevance.	/ 6 pts	
v. Research Questions (4 points)	4 to >3 pts  Excellent  4 points (Excellent): Clearly identifies and explains the key research questions.	3 to >2 pts Good 3 points (Good): Mentions resea explanations are incomplete or t	Needs Improvement Nentions research questions, but 1-2 points (Needs Improvement): Minimal or vague 0		O pts Not Addr O points ( identified	Not Addressed): No research questions	/ 4 pts		
vi. Results Summary (4 points)	4 to >3 pts Excellent 4 points (Excellent): Concisely and accurately summarizes key results and implications.	3 to >2 pts Good 3 points (Good): Provides a sum misses key implications.	Needs Imp od): Provides a summary but lacks clarity or 1-2 points		2 to >0 pts Needs Improvement  1-2 points (Needs Improvement): Minimal or unclear summary of results.  0 pts Not Addressed  0 points (Not Addressed): No results sum		ressed Not Addressed): No results summary provided.	/ 4 pts	
vii. Limitations (2 points)	2 to >1 pts Excellent 2 points (Excellent): Identifies and explains limitations com	1 to >0 pts Good  1 point (Good): Mentions limitations b		0 pts Not Addressed but explanation is minimal or unclear.  0 points (Not Addressed): Does no		es not address limitations.	/ 2 pts		
viii. Future Direction (2 points)	2 to >1 pts Excellent 2 points (Excellent): Proposes thoughtful, well-reasoned ful based on findings.	1 to >0 pts Good  ture directions 1 point (Goo	Good  1 point (Good): Suggests future directions but lacks depth or align		0 pts Not Addressed oth or alignment with 0 points (Not Addressed): No future directions provided.		future directions provided.	/ 2 pts	8

## AI-Supported Grading Rubrics for Research Presentations



Delivery (15 Points): i. Presentation Based on Understanding and Answering Questions (7 points)	5 to >4 pts Excellent 5 points (Excellent): demonstrates an exceptional understanding of the material, confidently explains concepts in their own words with minimal reliance on slides, effectively engages with the audience, and answers questions perfectly.	4 to >3 pts Good 4 points (Good): shows a good grasp of the material, uses slides as a reference but explains most concepts independently, and engages moderately with the audience, answers questions moderately well.	3 to >2 pts Satisfactory 3 points (Satisfactory): has a moderate understanding, relies on slides for explanations, and shows limited engagement with the audience, providing somewhat satisfactory responses to questions.	2 to >1 pts Needs Improvement 2 points (Needs Improvement): heavily relies on reading slides, demonstrates limited understanding of the material, and lacks audience engagement, answers to the questions are not that much satisfactory.	1 to >0 pts Poor 0-1 points (Poor): reads directly from slides with minimal or no evidence of understanding or independent thought, answers to the questions are not at all satisfactory	/ 5 pts
ii. Presentation Quality (5 points)	5 to >4 pts Excellent 5 points (Excellent): Engaging and professional delivery, clear voice, good pacing, and appropriate body language.	4 to >3 pts Good 4 points (Good): Good delivery but with minor issues such as pacing, clarity, or engagement.	3 to >1 pts Needs Improvement 2-3 points (Needs Improvement): Adequate delivery but lacks engagement, clarity, or professionalism.	1 to >0 pts Poor 1 point (Poor): Minimal effort in delivery; difficult to follow.	O pts Not Addressed O points (Not Addressed): Presentation quality significantly hampers understanding.	/ 5 pts □
iii. Slide Design (3 points)	5 to >4 pts Excellent 5 points (Excellent): Slides are visually appealing, well-organized, and complement the presentation. They effectively use visuals (e.g., charts, images) to enhance understanding, with minimal text and clear structure.	4 to >3 pts Good 4 points (Good): Slides are clear and organized with relevant visuals and text, but there is some room for improvement in design or structure.	3 to >2 pts Satisfactory 3 points (Satisfactory): Slides convey the key points but may be text-heavy, lack visuals, or have minor issues with organization or formatting.	2 to >1 pts Needs Improvement 2 points (Needs Improvement): Slides are cluttered, lack coherence, or fail to support the presentation effectively.	1 to >0 pts Poor 0-1 points (Poor): Slides are missing, disorganized, or significantly detract from the presentation quality.	/ 5 pts □

### **Designing Canvas-Integrated Rubrics**





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Modules
Assignments
Quizzes

**Announcements** 

Outcomes

View Grade Submission Receipts Instructor Course Evaluations

Submit Final Grades

Collaborations Ø















Criteria		Ratings		Pts
Content (35 Points): i. Problem Statement (5 points) Range	Excellent Good 5 points: Clearly articulates the problem addressed in the paper, its significance, and its dep	o >4.0 pts 4 to >2.0 pts 2 to >0.0 pts Pool Meds Improvement Pool Pool Meds Improvement Pool Pool Pool Pool Pool Pool Pool Poo		5 pts
ii. Solution Approach (8 points) Range 🗾	6 to >5.0 pts Excellent 6 points (Excellent): Thorough explanation of the solution, including key methodologies or algorithms, with clarity and depth.  5 to >3.0 g Good expl but missin details or I depth.	(Good): 3 points (Need anation minor explanation with the state of the	Is 1-2 points 0 points (Not Addressed): No effort in explanation	6 pts
iii. Technical Contributions with Examples (6 points) Range	6 to >5.0 pts 5 to >3.0 pts Excellent Good 6 points (Excellent): 4-5 points (Go Effectively highlights Mentions	3 to >1.0 pts Needs Improvement): 2-3 points (Needs Improvement): 0ut  Contributions are mentioned but lack explanation or examples.	1 to >0.0 pts  Poor Not Addressed 1 point (Poor): 0 points (Not Addressed): No  diacknowledgment of ⊕ mention of	6 pts
iv. Demo/Screenshots of Reproducibility (6 points) Range	6 to >5.0 pts  Excellent 6 points (Excellent): Provides clear and accurate demos/screenshots with explanations, demonstrating reproducibility.  5 to >3.0 pts Good 4-5 points (Good Includes) demos/screenshot but with minor gaps or unclear explanations.	2-3 points (Needs	1 to >0.0 pts Poor Poor 1 point (Poor): Screenshots/demos are minimal or lack are minimal or lack	6 pts
v. Research Questions (4 points) Range	Clearly identifies and research q explains the key research explanation	Sood): Mentions 1-2 po uestions, but	0.0 pts In provement oints (Needs vement): Minimal or mention of research ions.  0 pts Not Addressed 4 op oints (Not Addressed): No research questions identified	4 pts

Delivery (15 Points): i. Presentation Based on Understanding and Answering Questions (7 points)	Excellent 5 points (Excellent): demonstrates an exceptional understanding of the material,	4 to >3.0 pts Good 4 points (Good): shows a good grasp of the material, uses slides as a reference but	3 to >2.0 pts Satisfactory 3 points (Satisfactory): has a moderate understanding, relies on slides for	2 to >1.0 pts Needs Improvement 2 points (Needs Improvement): heavily relies on reading slides,	1 to >0 pts Poor 0-1 points (Poor): reads directly from slides with minimal or no evidence of	
Range 🗾	concepts in their own words with minimal reliance on slides, effectively engages with the audience, and	explains most concepts independently, and engages moderately with the audience, answers questions moderately well.	explanations, and shows limited engagement with the audience, providing somewhat satisfactory responses to questions.	demonstrates limited understanding of the material, and lacks audience engagement, answers to the questions are not that much satisfactory.	understanding or independent thought, answers to the questions are not at all satisfactory	5 pts
ii. Presentation Quality (5 points) Range 2	Excellent 5 points (Excellent): Engaging and professional delivery, clear voice, good pacing, and	4 to >3.0 pts Good 4 points (Good): Good delivery but with minor issues such as pacing, clarity, or engagement.	3 to >1.0 pts Needs Improvement 2-3 points (Needs Improvement): Adequate delivery but lacks engagement, clarity, or professionalism.	1 to >0.0 pts Poor 1 point (Poor): Minimal effort	O pts Not Addressed O points (Not Addressed): Presentation quality significantly hampers understanding.	5 pts
iii. Slide Design (3 points)	5 to >4.0 pts Excellent 5 points (Excellent): Slides are visually appealing, well- organized, and complement the presentation. They effectively use visuals (e.g., charts, images) to enhance understanding, with minimal text and clear structure.	4 to >3.0 pts Good 4 points (Good): Slides are clear and organized with relevant visuals and text, but there is some room for improvement in design or structure.	3 to >2.0 pts Satisfactory 3 points (Satisfactory): Slides convey the key points but may be text-heavy, lack visuals, or have minor issues with organization or formatting.	2 to >1.0 pts Needs Improvement 2 points (Needs Improvement): Slides are	1 to >0 pts Poor 0-1 points (Poor): Slides are missing, disorganized, or significantly detract from the presentation quality.	5 pts
+ <u>Criterion</u> Q Fi	ind Outcome	!	1		1	Total Points: 50
Remove points fro	n comments when assess om rubric mes results to Learning N r assignment grading					

### **Grading using Canvas-Integrated Rubrics**







Research Paper Presentation
Due: Dec 2, 2024 at 11:59pm - CS 5393.001

Criteria	Ratings							Pts
Content (35 Points): i. Problem Statement (5 points)	5 to >4 pts Excellent 5 points: Clearly articulates the problem addressed in th paper, its significance, and its relevance.	4 to >2 pts Good 3-4 points: States the problem but lac in explaining its significance.	ks clarity or depth 1	2 to >0 pts Needs Improvement 1-2 points: Vague or incomplete or problem	description of the	O pts Poor O points (P	<sup>2</sup> oor): Fails to describe the problem.	5 / 5 pts
ii. Solution Approach (8 points)		nts (Good): Good explanation but	to >2 pts leeds Improvement points (Needs Improver xplanation with significa		ts ts (Poor): Minimal effort i g the solution.	in	O pts Not Addressed O points (Not Addressed): No explanation provided.	6 / 6 pts
iii. Technical Contributions with Examples (6 points)		nts (Good): Mentions contributions 2  l limited examples or evidence.	to >1 pts leeds Improvement -3 points (Needs Improviontributions are mentions) explanation or examples.	oned but lack contribut	Poor): Minimal acknowle	dgment of	O pts Not Addressed O points (Not Addressed): No mention of contributions.	5 /6 pts
v. Demo/Screenshots of Reproducibility (6 points)	accurate demos/screenshots with demos/	nts (Good): Includes 2 screenshots but with minor gaps or 5	1 to >0 pts  Needs Improvement 2-3 points (Needs Improvement): 5-creenshots/demos are vague or partially relevant.  1 to >0 pts  Poor  1 point (Poor): Screenshots/demos are minimal or lack relevance.				6 /6 pts	
v. Research Questions (4 points)	4 to >3 pts Excellent 4 points (Excellent): Clearly identifies and explains the key research questions.		Good Needs Improv 3 points (Good): Mentions research questions, but 1-2 points (Ne		ement Opts Not Addressed  eds Improvement): Minimal or vague earch questions.  Opoints (Not Addressed): No research questions identified			4 /4 pts
vi. Results Summary (4 points)	4 to >3 pts Excellent 4 points (Excellent): Concisely and accurately summarizes key results and implications.	3 to >2 pts Good 3 points (Good): Provides a summary l misses key implications.	but lacks clarity or 1	2 to >0 pts Needs Improvement 1-2 points (Needs Improvement): summary of results.	0 pts Not Addressed 0 points (Not Addressed): No results summary provide			4 / 4 pts
vii. Limitations (2 points)	2 to >1 pts Excellent 2 points (Excellent): Identifies and explains limitations co	1 to >0 pts Good 1 point (Good): M			O pts Not Addressed ion is minimal or unclear. O points (Not Addressed		s not address limitations.	2 / 2 pts
viii. Future Direction (2 points)	2 to >1 pts Excellent 2 points (Excellent): Proposes thoughtful, well-reasoned based on findings.	1 to >0 pts Good future directions 1 point (Good): St findings.	uggests future directions	s but lacks depth or alignment wi	0 pts Not Addressed th 0 points (Not Add	dressed): No f	uture directions provided.	2 / 2 pts

### **Grading using Canvas-Integrated Rubrics**









Research Paper Presentation
Due: Dec 2, 2024 at 11:59pm - CS 5393.001

Delivery (15 Points): i. Presentation Based on Understanding and Answering Questions (7 points)	5 to >4 pts Excellent  5 points (Excellent): demonstrates an exceptional understanding of the material, confidently explains concepts in their own words with minimal reliance on slides, effectively engages with the audience, and answers questions perfectly.	4 to >3 pts Good  4 points (Good): shows a good grasp of the material, uses slides as a reference but explains most concepts independently, and engages moderately with the audience, answers questions moderately well.	3 to >2 pts Satisfactory 3 points (Satisfactory): has a moderate understanding, relies on slides for explanations, and shows limited engagement with the audience, providing somewhat satisfactory responses to questions.	2 to >1 pts Needs Improvement 2 points (Needs Improvement): heavily relies on reading slides, demonstrates limited understanding of the material, and lacks audience engagement, answers to the questions are not that much satisfactory.	1 to >0 pts Poor  0-1 points (Poor): reads directly from slides with minimal or no evidence of understanding or independent thought, answers to the questions are not at all satisfactory	5 / 5 pts □
ii. Presentation Quality (5 points)	5 to >4 pts Excellent 5 points (Excellent): Engaging and professional delivery, clear voice, good pacing, and appropriate body language.	4 to >3 pts Good 4 points (Good): Good delivery but with minor issues such as pacing, clarity, or engagement.	3 to >1 pts Needs Improvement 2-3 points (Needs Improvement): Adequate delivery but lacks engagement, clarity, or professionalism.	1 to >0 pts Poor 1 point (Poor): Minimal effort in delivery; difficult to follow.	0 pts Not Addressed 0 points (Not Addressed): Presentation quality significantly hampers understanding.	4 / 5 pts
iii. Slide Design (3 points)	5 to >4 pts Excellent 5 points (Excellent): Slides are visually appealing, well-organized, and complement the presentation. They effectively use visuals (e.g., charts, images) to enhance understanding, with minimal text and clear structure.	4 to >3 pts Good 4 points (Good): Slides are clear and organized with relevant visuals and text, but there is some room for improvement in design or structure.	3 to >2 pts Satisfactory 3 points (Satisfactory): Slides convey the key points but may be text-heavy, lack visuals, or have minor issues with organization or formatting.	2 to >1 pts Needs Improvement 2 points (Needs Improvement): Slides are cluttered, lack coherence, or fail to support the presentation effectively.	1 to >0 pts Poor 0-1 points (Poor): Slides are missing, disorganized, or significantly detract from the presentation quality.	3 / 5 pts
			n Fig $1$ was not properly scaled and was hard to $\sigma$ des were good but the procedure slides have too		o much text. research questions slides could	Total Points: 46 out o



### **Effective AI Prompts for Grading & Feedback**

Create a detailed grading rubric for evaluating research paper **presentations**. The rubric should assess both content and delivery, with a total of **50 points**. It should include specific criteria such as problem statement, solution approach, technical contributions, research reproducibility, research questions, results summary, limitations, future direction, presentation quality, and slide design. Each criterion should have a clear point distribution and descriptions for different performance levels (Excellent, Good, Needs Improvement, and Poor). Ensure the rubric is structured, easy to apply, and provides meaningful feedback.



### Effective AI Prompts for Grading & Feedback



#### Problem Statement Evaluation Prompt

"Define grading criteria for evaluating how well a research presentation explains the problem statement. Include different performance levels such as Excellent, Good, Needs Improvement, and Poor."

#### Solution Approach Assessment Prompt

"Describe a grading rubric for assessing the explanation of the solution approach in a research paper presentation. The rubric should include point distribution and descriptions of different levels of clarity and detail."

#### **♦** Technical Contributions Prompt

"Provide a structured evaluation rubric for grading how well the presenter highlights the technical contributions of the research. The rubric should differentiate between thorough explanations with examples and vague descriptions."

#### **♦** Reproducibility (Demo/Screenshots) Prompt

"Create grading criteria for assessing whether the presenter provides evidence of research reproducibility, such as demo results or screenshots. The rubric should reward clear demonstrations and penalize missing or vague explanations."

#### **♦** Research Questions Prompt

"Generate grading criteria for evaluating how well the presenter identifies and explains the research questions addressed in the paper. The rubric should differentiate between clear articulation and vague or missing questions."

#### Results Summary Prompt

"Create a grading rubric for evaluating how well the research results are summarized in a presentation. The rubric should distinguish between well-explained findings and unclear or missing results."



### Effective AI Prompts for Grading & Feedback



### Limitations Prompt

"Provide grading criteria for assessing how well the presenter discusses the limitations of the research. The rubric should differentiate between a comprehensive explanation and missing or vague discussions."

#### **♦** Future Direction Prompt

"Develop a rubric for grading how well the presenter outlines potential future directions based on the research findings. The rubric should reward well-reasoned suggestions and deduct points for vague or missing directions."

#### Presentation Understanding & Delivery Prompt

"Create a grading rubric for evaluating the presenter's understanding of the research paper and delivery quality. Include criteria for confidence, ability to explain concepts, audience engagement, and reliance on slides."

### Slide Design Prompt

"Generate a grading rubric for evaluating the design of presentation slides. Consider factors such as clarity, visual appeal, organization, and the effective use of visuals versus excessive text."

"Combine all the above grading criteria into a cohesive research paper presentation rubric. Ensure that content and delivery are fairly weighted (e.g., 35 points for content, 15 points for delivery). Provide clear descriptions of performance levels (Excellent, Good, Needs Improvement, Poor) and ensure the total score sums to 50 points."



### **Bonus Prompts for AI-Assisted Grading**

If we want AI to **evaluate a presentation based on this rubric**, we can use:



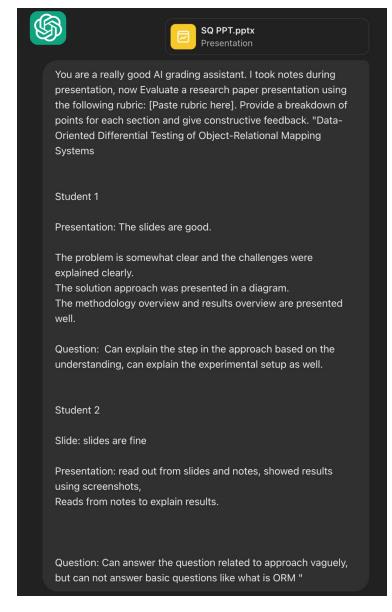
Evaluate a research paper presentation using the following rubric: [Paste rubric here]. Provide a breakdown of points for each section and give constructive feedback.





Based on this rubric, analyze the content, delivery, and slide design of a given presentation. Provide a detailed score and feedback for each criterion.

### LLM as Judge while Grading







### LLM as Judge while Grading

Evaluation of Research Paper Presentation: "Data-Oriented Differential Testing of Object-Relational Mapping Systems"

Based on the provided rubric, here is a detailed breakdown of the evaluation for both students.

#### **Final Comments:**

- Student 1 had a strong understanding and effectively delivered the presentation with clear explanations.
- Student 2 should focus on better preparation, ensuring they understand the fundamentals and avoid excessive reliance on slides.



#### Student 1 Evaluation

#### Content (35 Points)

- 1. Problem Statement (4/5)
  - · The problem was somewhat clear.
- · Challenges were explained well, which added clarity.
- · Could improve by explicitly stating the significance of the problem.
- 2. Solution Approach (7/8)
  - The approach was well presented with a diagram, which helped in understanding.
  - Minor improvements could include a more detailed breakdown of how the approach addresses the challenges.
- 3. Technical Contributions with Examples (6/6)
  - The methodology overview and results were well presented.
  - Contributions were clear and supported by examples.
- 4. Demo/Screenshots of Reproducibility (6/6)
  - · The results were well demonstrated.
  - · Screenshots helped in explaining the process effectively.
- 5. Research Questions (4/4)
- · Research questions were clearly stated.
- 6. Results Summary (4/4)
- · Summarized key findings accurately.
- 7. Limitations (2/2)
- · Limitations were addressed.
- 8. Future Direction (4/4)
  - Provided a well-thought-out future direction.

#### **Delivery (15 Points)**

- 9. Presentation Based on Understanding (5/5)
  - Answered questions confidently and explained the experimental setup and steps well.
  - Demonstrated good understanding of the approach.
- 10. Presentation Quality (4/5)
- Good delivery, but could have been more engaging.
- · Voice and pacing were effective.
- 11. Slide Design (4/5)
- Slides were visually clear and well-structured.
- Some minor improvements could be made in organizing content more concisely.

#### Total Score for Student 1: 46/50

▼ Strengths: Clear technical explanation, well-structured presentation, confident delivery.

 ${\mathscr V}$  Areas for Improvement: More emphasis on the significance of the problem and slightly more engaging delivery.

#### **Student 2 Evaluation**

#### Content (35 Points)

- 1. Problem Statement (3/5)
  - The problem was introduced but lacked depth in explanation.
- 2. Solution Approach (5/8)
  - The solution was explained but mostly read from slides and notes.
  - Could have provided more detail beyond what was written.
- 3. Technical Contributions with Examples (4/6)
  - · Contributions were mentioned but lacked depth and strong examples.
  - · Screenshots were shown, which was helpful.
- 4. Demo/Screenshots of Reproducibility (5/6)
  - Results were presented using screenshots, which improved clarity.
  - · More explanation would have made it stronger.
- 5. Research Questions (3/4)
  - Research questions were mentioned but not fully explained.
- 6. Results Summary (3/4)
  - Summarized key results but with minimal elaboration.
- 7. Limitations (1/2)
  - · Limitations were briefly mentioned but not well explained.
- 8. Future Direction (2/4)
  - Future work was discussed but lacked depth.

#### **Delivery (15 Points)**

- 9. Presentation Based on Understanding (2/5)
  - Relied heavily on reading from slides and notes.
  - Answered approach-related questions vaguely but struggled with basic questions, such as "What is ORM?"
- 10. Presentation Quality (2/5)
- · Minimal engagement; mostly read aloud.
- · The flow of speech could be improved.
- 11. Slide Design (4/5)
- Slides were fine and well-organized.

#### Total Score for Student 2: 32/50

▼ Strengths: Used screenshots effectively, slides were clear.

\*\* Areas for Improvement: Avoid reading directly from slides, improve understanding of core concepts, and engage more with the audience.



### **AI-Assisted Grading with GPT: Key Takeaways**

- Standardized rubrics for clarity
- Consistent & objective evaluations
- Detailed, structured feedback
- Al-assisted, human-driven grading
- Fair & efficient assessment with instructor-in-the-loop



### **Challenges & Limitations of AI-Assisted Grading**



### **Challenges:**

- May miss deeper conceptual gaps
- Struggles with engagement detection
- Over-reliance on slide reading





### **Limitations:**

- Lacks context sensitivity
- Some grading aspects need human judgment
- Requires instructor oversight for fairness

## GUI DIN

### Using ChatGPT as a Grading Assistant

### ChatGPT does not know your students.

It is unaware of IEPs or extenuating circumstances that would give reason to adapt a standard, expectation, or grade.

#### ChatGPT isn't perfect.

It's true regardless of the task that you are asking it to help with. Using ChatGPT to help grade is no different. You will need to review what it generates, edit, revise, and tweak.

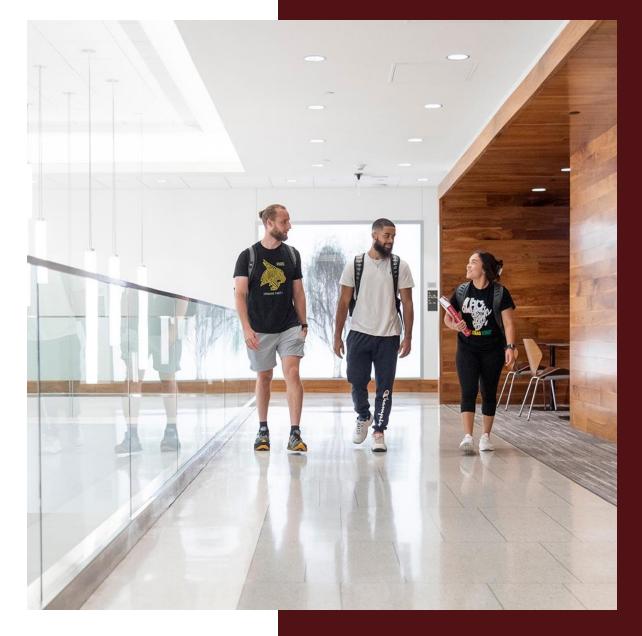
### You can't rely solely on ChatGPT for grading.

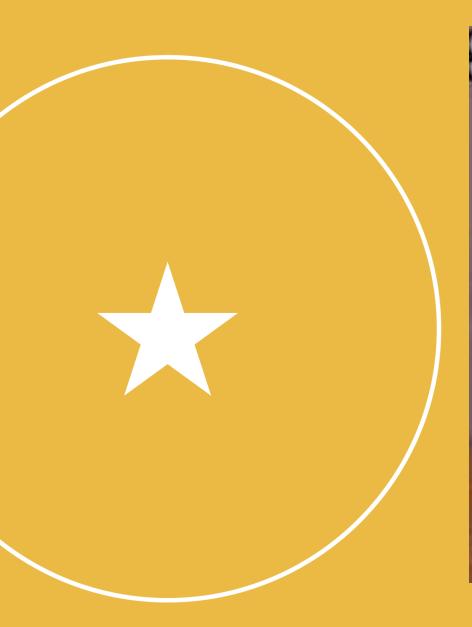
Can it be a tremendous help? Yes. But you should not take its assessments as final.

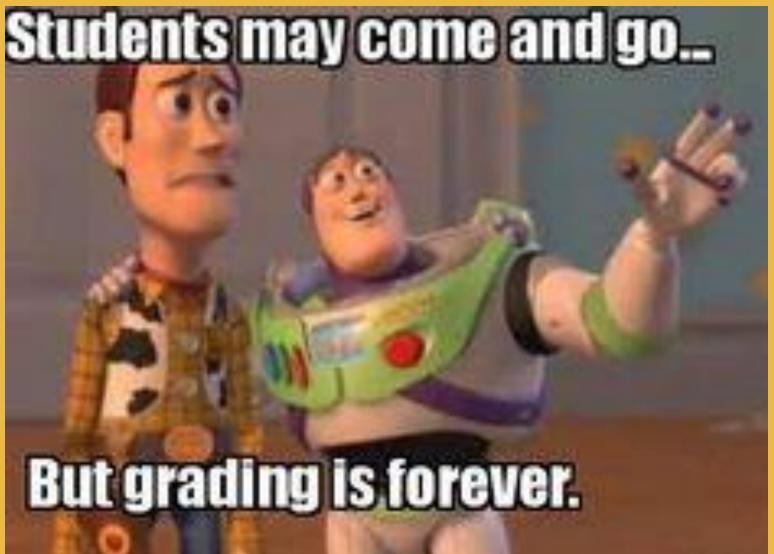
### You are ultimately responsible.

You are responsible for the accuracy of the grading and the feedback. You will need to be able to defend grades and feedback you give students.

## THO UGH

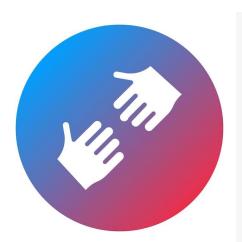








Thank you everyone for this opportunity to share how I use generative AI for grading research presentations. I'd like to hear your experiences as well, especially since my research focuses on understanding the reliability of LLMs: feel free to reach out!



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