

Kindly after correction highlight the changed parts and make it with different colour

Evaluation Report: Dissertation by Majid Taleb Alffel

Title: *Factors Influencing AI-Based Project Management and Its Outcomes in Industrial Engineering Projects: Design and Consultancy Engineering Projects*

Strengths

1. Research Design & Methodology:

- Employs a robust mixed-method sequential explanatory design (quantitative surveys + qualitative interviews).
- Clear justification for mixed methods to capture statistical relationships and contextual insights.
- Detailed population description (1,123 Saudi design/consultancy firms), validated instruments, and ethical adherence.
- Appropriate analytical techniques: SEM for mediation, thematic coding, Cronbach's alpha, factor analyses.

2. Theoretical Foundation:

- Comprehensive literature coverage of AI in project management, PMBOK, and Saudi-specific studies.
- Extensive references (Arabic/English, 2025 publications).

3. Originality & Relevance:

- Novel focus on AI adoption in Saudi industrial engineering projects.
- High interdisciplinary relevance (AI, project management, engineering).
- Significant industry/policy implications for emerging technologies.

4. Structure & Presentation:

- Logically ordered sections; good integration of mixed methods.
- Generally clear academic writing and consistent formatting.

- Ethical protocols explicitly mentioned.

Weaknesses & Recommendations

1. Theoretical Framework & Literature Review:

- **Weaknesses:** Limited critical synthesis of literature; competing theories/gaps not explicitly contrasted.
- **Recommendations:**
 - Enhance critical analysis of literature, highlighting unresolved conflicts.
 - Clearly define research gaps and articulate how the study addresses them.

2. Research Problem & Conceptual Design:

- **Weaknesses:**
 - Imprecise problem statement; research aims/questions not explicitly stated.
 - Conceptual framework lacks graphical model; hypotheses need formal justification.
- **Recommendations:**
 - Refine problem statement for conciseness.
 - Present a visual conceptual model and logically developed hypotheses.

3. Methodology & Sampling:

- **Weaknesses:**
 - Insufficient detail on sampling rationale, response rates, and bias mitigation.
 - Qualitative sample size/data saturation not discussed.
 - Mixed-method integration strategy unclear.
- **Recommendations:**
 - Elaborate on sampling techniques, response rate management, and non-response handling.
 - Explicitly justify qualitative sample size and data saturation.

- Detail strategies for integrating quantitative/qualitative findings.

4. Data & Analysis:

- **Weaknesses:**

- Actual response rates, data completeness, and quality metrics undisclosed.
- Results/discussion sections unavailable for evaluation.

- **Recommendations:**

- Disclose data collection outcomes (response rates, completeness).
- Ensure alignment of analysis techniques with hypotheses.

5. Academic Rigor & Presentation:

- **Weaknesses:**

- Minor referencing inconsistencies (capitalization, punctuation).
- Occasional repetition and transitional gaps between chapters.
- Ethical details for qualitative data (e.g., confidentiality) underexplored.

- **Recommendations:**

- Standardize referencing per university guidelines; vet source quality.
- Improve chapter transitions and linkage.
- Elaborate on ethical protocols (informed consent, confidentiality in interviews).
- Professional proofreading for phrasing/grammar.

6. Implications & Contributions:

- **Weaknesses:**

- Practical/policy implications not deeply elaborated.
- Methodological/theoretical innovations not explicitly highlighted.

- **Recommendations:**

- Strengthen discussion of theoretical/practical/policy impacts.

- Articulate methodological refinements (e.g., SEM application in new context).

Overall Assessment

The dissertation demonstrates **solid research potential** with a relevant topic, appropriate methodology, and comprehensive literature base. However, it requires significant revisions to address gaps in theoretical framing, methodological transparency, and analytical depth. Key priorities include:

- Explicitly defining research gaps/questions.
- Developing a robust conceptual model.
- Detailing sampling/data integration strategies.
- Presenting results and implications comprehensively.

Final Note: The work is academically sound but must address the identified weaknesses to achieve excellence at the doctoral level.