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REVIEWER'S REPORT

Manuscript No.: IJAR-59726

Title: Predictive Cost and Schedule Analytics for Improving Performance in Saudi Giga-Projects.

Recommendation:

Accept as it is .....

Accept after minor revision.....

Accept after major revision .....

Do not accept (*Reasons below*) .....

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity		✓		
Significance		✓		

Reviewer Id: JPR-284

Reviewer's Comment for Publication.

The manuscript presents a relevant and comprehensive critical review of artificial intelligence-driven predictive cost and schedule analytics in the context of Saudi giga-projects. It provides a well-organised discussion of machine learning techniques, explainable AI, digital twins, progress monitoring, and integrated project control. The review demonstrates a good understanding of the challenges associated with cost overruns, schedule delays, data integration, uncertainty, and project governance. The proposed decision architecture is a valuable conceptual contribution, particularly its emphasis on combining predictive forecasting with human-authorised interventions. The manuscript also identifies important research gaps concerning external validation, cross-project transferability, and practical implementation. However, some methodological and presentation-related aspects require attention. In particular, several entries in Appendix A (Table 3) contain incomplete information marked as "[to complete]," which affects the completeness of the literature synthesis. Overall, the manuscript has good academic relevance, technical quality, and practical significance for construction project management and Saudi Arabia's Vision 2030 development initiatives. It is suitable for publication after minor revision.