

## REVIEWER'S REPORT

Manuscript No.: IJAR-59298

Title: AI-Driven Predictive HSE and Environmental Risk Management Framework for Sustainable Oil & Gas and Construction Projects in Saudi Arabia.

### 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-294

### Reviewer's Comment for Publication.

The manuscript addresses a relevant and contemporary topic by proposing an AI-driven predictive HSE and environmental risk management framework for oil and gas and construction projects in Saudi Arabia. The review is well structured and covers important technologies including machine learning, computer vision, IoT sensing, digital twins, predictive maintenance, and NLP. The proposed framework provides a useful connection between predictive analytics, risk intelligence, human intervention, and sustainability. However, minor revisions are required. The authors should improve the overall language and grammatical consistency, ensure uniform formatting of headings, tables, and figures, and clarify some methodological details of the literature search and selection process. The references and in-text citations should also be carefully checked for consistency and completeness. After addressing these minor issues, the manuscript may be considered for publication.