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| Book Name: | [**New Advances in Business, Management and Economics**](https://www.bookpi.org/bookstore/product/new-advances-in-business-management-and-economics-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5643** |
| Title of the Manuscript:  | **Data-Driven Financial Risk Mitigation in Energy Investments: Optimizing Capital Allocation and Portfolio Performance** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Asian Journal of Economics, Business and Accounting, 25(4): 523-531, 2025.**

**DOI: 10.9734/ajeba/2025/v25i41769**

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| PART 1: Comments |
|  | **Reviewer’s comment****Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This manuscript makes a valuable contribution to the fields of energy investment, artificial intelligence, and financial risk management. It provides a clear and timely review of recent advancements in AI-driven techniques for mitigating financial risks within the energy sector. By highlighting practical applications such as predictive analytics, credit risk modeling, and automated portfolio optimization, the paper offers actionable insights for both researchers and practitioners. Its relevance is further underscored by its potential to inform future research and support more effective decision-making for investors, industry leaders, and policymakers in a rapidly evolving market landscape.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **Yes, suitable title** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **Abstract looks good. If it need some modification - This paper looks at how artificial intelligence (AI) can help reduce financial risks when investing in energy projects. We review recent studies (2019–2024) that use AI tools such as machine-learning models, predictive analytics, and automated portfolio methods. These tools can spot credit problems early, forecast price swings, and suggest better ways to spread investments across different energy assets. By bringing together the main findings, we show that AI methods can cut risk, improve capital use, and boost returns for investors, banks, and policymakers. The review also points out current data challenges and suggests areas where more research is needed, such as making AI models easier to explain and adapting them to different rules in each country.** |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **Yes correct. The manuscript addresses a highly relevant and timely topic by exploring the application of AI in financial risk mitigation within the energy sector. It effectively summarizes recent research and highlights practical uses of AI tools such as predictive analytics and credit risk modeling. The structure is logical, and the content is aligned with current industry trends and regulatory concerns. It also provides valuable insights for both academic researchers and practitioners.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **References were sufficient** |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language used in the manuscript is appropriate for scholarly communication, with correct grammar, terminology, and academic tone. |  |
| Optional/General comments | This is optional comments – limitations of current AI methods in this field and future research directions suggested in the conclusion.**This manuscript covers an important topic by showing how artificial intelligence can help reduce financial risks in the energy sector. The content is well-organized and shows a good understanding of both AI and finance.** |  |

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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer details:**

**Prathap Raghavan, University of Madra, India**