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| Journal Name: | [**Journal of Energy Research and Reviews**](https://journaljenrr.com/index.php/JENRR) |
| Manuscript Number: | **Ms\_JENRR\_139278** |
| Title of the Manuscript: | **Data-Centric AI for Zero-Carbon Power Systems Security: A Framework for Learning with Noisy, Sparse, and Heterogeneous Data** |
| Type of the Article |  |

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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** (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.** | The paper is important and contributes to knowledge in the field of artificial intelligence, cybersecurity, and sustainable energy systems. It solves the challenge of managing imperfect data and ensuring cybersecurity in zero-carbon energy infrastructures. It is a valuable work for researchers, grid operators, and policymakers. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes, it is. |  |
| 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. | The abstract is comprehensive and adequate. |  |
| Is the manuscript scientifically, correct? Please write here. | Yes, it is. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The references are sufficient and recent. |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes. |  |
| Optional/General comments | The work is great and covers the main aim and objectives. It is comprehensive and detailed. However, I suggest a comparison of this framework and conventional model-centric systems to provide more clarity. |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with 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 details)* |  |

**Reviewer details:**

**Godwin Ededem Udo, University of Uyo, Uyo, Nigeria**