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| Book Name: | **Intelligent IoT Systems: From Research to Real-World Solutions** |
| Manuscript Number: | **Ms\_BPR\_6282.5** |
| Title of the Manuscript: | **IoT Based Power Consumption Monitoring For Home Appliances** |
| Type of the Article | **Book Chapter** |

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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.** | The manuscript presents a useful study on using IoT to monitor power consumption of home appliances. This topic is very important because energy use is increasing every day, and smart systems can help people save electricity, reduce bills, and support renewable energy. The work combines real-time monitoring, machine learning forecasting, and a simple dashboard for users, which makes it practical for both households and electricity providers. Overall, this project has value for the scientific community as it contributes to the goal of energy efficiency and sustainability. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The current title, IoT Based Power Consumption Monitoring for Home Appliances, is understandable, but it does not fully reflect the scope of the paper. Since the system also includes forecasting, renewable energy support, and anomaly detection, a clearer title could be IoT-Based Smart Energy Monitoring and Forecasting for Homes or Intelligent IoT System for Energy Management in Residential Applications. This would better capture the content of the paper. |  |
| 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 covers the main ideas, but it is a little long and repeats some points. It would be better if it included specific results from the prototype, such as how accurate the predictions are or how much energy can be saved. Adding such details would make the contribution stronger and easier for readers to understand at a glance. |  |
| **Is the manuscript scientifically, correct? Please write here.** | The manuscript is scientifically correct, and the system architecture and methods are clearly explained. However, the results section could be improved by giving more details about how the system was tested, how much data was used, and by comparing it with other existing methods. This would make the findings more convincing. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | The manuscript is scientifically correct, and the system architecture and methods are clearly explained. However, the results section could be improved by giving more details about how the system was tested, how much data was used, and by comparing it with other existing methods. This would make the findings more convincing. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language of the paper is clear enough for academic use, but some sentences could be shorter and less repetitive to improve readability. |  |
| Optional/General comments |  |  |

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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?** | There are no ethical concerns in this study, since it does not involve people or animals, and there are no competing interests visible. |  |

**Reviewer details:**

**Praful Vijay Nandankar, India**