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| Book Name: | [**New Horizons of Science, Technology and Culture**](https://bookstore.bookpi.org/product/new-horizons-of-science-technology-and-culture-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5805** |
| Title of the Manuscript: | **A Deep Learning System for Detecting Severe Lung Diseases: Tuberculosis, pneumonia, and COVID-19 Through Digital Chest X-rays** |
| 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 abstract of the article provides a concise yet clear overview, successfully setting the stage for the main discussion. It succinctly outlines the purpose of the research, making it easy for the reader to grasp the study's objectives. The introduction is equally effective, offering a solid foundation for the reader to understand the context and significance of the study.**  **The literature review, while brief, is well-executed, summarizing key research and providing important background information. It effectively supports the current study's relevance by situating it within the broader field of knowledge. The review does a commendable job of highlighting existing gaps, thus justifying the need for this particular investigation.**  **When it comes to the methodology, the article presents a well-structured and clearly articulated approach. The use of statistical tools and techniques is explained with adequate depth, showcasing the robustness of the research design. In particular, the inclusion of the confusion matrix adds an insightful layer to the analysis. This not only highlights the performance of the model but also facilitates a more nuanced interpretation of results, making the analysis more comprehensive.**  **Overall, the article presents a solid blend of theoretical grounding and practical analysis, which makes it acceptable for further academic discussion. The methodological approach, especially the qualitative insights drawn from the confusion matrix, adds considerable value to the research, providing readers with a thorough understanding of the outcomes.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** |  |
| 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. | **Yes** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Yes** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **Yes** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| 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?** | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer details:**

**Shatrajit Goswami, India**