Book Name:	Scientific Research, New Technologies and Applications
Manuscript Number:	**Ms_BPR_3199**
Title of the Manuscript:	**Federated Learning and Deep Learning: A New Frontier for Real-World Applications**
Type of the Article	**BOOK CHAPTER**

<mark>**PART 1:**</mark> **Review Comments**

<u>Compulsory</u> REVISION comments	Reviewer's comment	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. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	This manuscript holds significant importance for the scientific community as it addresses the growing need for privacy-preserving machine learning techniques in a world increasingly reliant on data. By exploring the synergy between federated learning and deep learning, the manuscript offers valuable insights into how we can leverage the power of collaborative model training without compromising data security. I appreciate the manuscript's comprehensive overview of the applications, advantages, and challenges associated with this intersection, as well as its forward-looking perspective on future research directions. The emphasis on ethical considerations is particularly commendable, highlighting the responsible development and deployment of these powerful technologies.	
Is the title of the article suitable? **(If not please suggest an alternative title)**	Yes, the title "Federated Learning and Deep Learning: A New Frontier for Real-World Applications" is suitable. It clearly conveys the main topics of the manuscript, which are federated learning, deep learning, and their combined application in practical scenarios. The use of "New Frontier" adds an element of novelty and excitement, reflecting the innovative potential of this research area.	
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, the abstract is comprehensive and effectively summarizes the key aspects of the chapter. It clearly states the focus on the intersection of federated learning and deep learning, highlights their transformative potential, and mentions the benefits of preserving data privacy and security. The inclusion of diverse application areas and the emphasis on ethical considerations and future directions further strengthens the abstract. I don't suggest any additions or deletions; it's concise and informative as it stands.	
Are subsections and structure of the manuscript appropriate?	**Yes**	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	The manuscript demonstrates scientific correctness by accurately describing the core concepts of federated learning and deep learning, along with their respective benefits and challenges. Its focus on data privacy and security as a key driver for integrating these two paradigms is well-justified and aligns with current research trends. The inclusion of diverse real-world applications and the discussion of ethical considerations further strengthens the manuscript's scientific robustness. By outlining future research directions, the manuscript encourages further exploration and development within this important area of artificial intelligence.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. **-**	The references are not sufficient. I suggest using more recent references (last 10 years).	
<u>Minor</u> REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**	The English of the manuscript should be improved. There are many typos and a proofread is required.	
<u>**Optional/General**</u> comments	The article is 81% AI generated	

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:

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