Qeios

Peer Review

Review of: "DEeR: Deviation Eliminating and Noise Regulating for Privacy-preserving Federated Low-rank Adaptation"

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This paper proposes an effective privacy protection fine-tuning solution, which solves the problems of privacy leakage and model aggregation bias and has practical application value in medical scenarios. In order to further improve the quality of the paper, the following modifications are recommended:

1. The medical scenario is mentioned in the introduction of the manuscript. It is recommended to add more specific application scenarios in the article to further demonstrate the practicality of the solution.

2. Some terms appear in the article, and the full names and abbreviations of the previous and next texts are inconsistent. It is recommended to keep them consistent throughout the article.

3. In terms of algorithm flow, it is recommended to add more descriptions of the algorithm flow. It will help readers better understand the solution.

4. For the evaluation indicators, the author should do more experiments for each setting, and the final results will be more authoritative.

5. The author should add a brief conclusion at the end of the experimental analysis section to summarize the parameter adjustment effect of the solution and emphasize under what circumstances it can achieve the best performance.

Declarations

Potential competing interests: No potential competing interests to declare.

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