Peer-Review Report

Peer Review of “Data Obfuscation Through Latent Space Projection for Privacy-Preserving AI Governance: Case Studies in Medical Diagnosis and Finance Fraud Detection”

Trutz Bommhardt

University of Wuppertal, Wuppertal, Germany

Related Articles:
Preprint (arXiv): https://arxiv.org/abs/2410.17459v1
Authors' Response to Peer-Review Reports: https://med.jmirx.org/2025/1/e72527
Published Article: https://med.jmirx.org/2025/1/e70100

JMIRx Med 2025;6:e72525; doi: 10.2196/72525

Keywords: privacy-preserving AI; latent space projection; data obfuscation; AI Governance; machine learning privacy; differential privacy; k-anonymity; HIPAA; GDPR; compliance; data utility; privacy-utility trade-off; responsible AI; medical imaging privacy; secure data sharing; LSP; artificial intelligence

This is a peer-review report for “Data Obfuscation Through Latent Space Projection for Privacy-Preserving AI Governance: Case Studies in Medical Diagnosis and Finance Fraud Detection.”

Round 1 Review

General Comments

I thoroughly enjoyed reading this paper [1] as it is a well-written article that will make an important contribution to the literature on the development of privacy-preserving artificial intelligence (AI) governance. I have attached a few comments to improve the study.

Specific Comments

Major Comments

Something like a discussion that embeds the latent space projection for AI governance and the results in the current scientific debate is missing before or after Chapter VII.

Minor Comments

In Chapter II B (Existing privacy-preserving techniques), please provide some further sources to demonstrate that the challenges mentioned are still relevant, as some sources are relatively old (eg, from 2009).

Conflicts of Interest

None declared.

References

1. Vaijainthymala Krishnamoorthy M. Data Obfuscation Through Latent Space Projection for Privacy-Preserving AI Governance: Case Studies in Medical Diagnosis and Finance Fraud Detection. JMIRx Med. 2025;6:e70100. [doi: 10.2196/70100]

Abbreviations

AI: artificial intelligence

Edited by Ching Nam Hang; This is a non–peer-reviewed article; submitted 11.02.2025; accepted 11.02.2025; published 12.03.2025

Please cite as:
Bommhardt T
Peer Review of “Data Obfuscation Through Latent Space Projection for Privacy-Preserving AI Governance: Case Studies in Medical Diagnosis and Finance Fraud Detection”

JMIRx Med 2025;6:e72525
URL: https://med.jmirx.org/2025/1/e72525
doi: 10.2196/72525

© Trutz Bommhardt. Originally published in JMIRx Med (https://med.jmirx.org), 12.03.2025. This is an open-access article distributed under the terms of the Creative Commons Attribution License (https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original work, first published in JMIRx Med, is properly cited. The complete bibliographic information, a link to the original publication on https://med.jmirx.org/, as well as this copyright and license information must be included.