

Decentralized AI: Leveraging Blockchain for Data Privacy

Shehryar Aslam

Habib University, Karachi, Pakistan

Correspondence:

Shehryar Aslam: shereyar.aslam@gmail.com

Article Link: <https://journals.brainnetwork.org/index.php/jcai/article/view/41>

DOI: <https://doi.org/10.69591/jcai.2.1.4>



Citation: Aslam, S. (2024). Decentralized AI: Leveraging Blockchain for Data Privacy. *Journal of Computing and Artificial Intelligence*, 2(1)

Conflict of Interest: Authors declared no Conflict of Interest

Acknowledgment: No administrative and technical support was taken for this research

Article History

Submitted: Mar 01, 2024

Last Revised: Apr 20, 2024

Accepted: May 19, 2024

Volume 2, Issue 1, 2024

Funding

No

Copyright

The Authors

Licensing



licensed under a [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/).



**An official Publication of
Beyond Research Advancement &
Innovation Network, Islamabad, Pakistan**

Decentralized AI: Leveraging Blockchain for Data Privacy

Shehryar Aslam

Habib University, Karachi, Pakistan

Abstract

This paper presents a novel approach to decentralized AI that utilizes blockchain technology to enhance data privacy. By combining federated learning with blockchain's immutable ledger, we create a secure framework that allows multiple parties to collaborate on AI model training without exposing sensitive data. Our findings show that this method not only preserves privacy but also improves model performance through diverse data contributions. This paradigm shift offers significant implications for industries requiring stringent data protection, such as healthcare and finance.

Keywords: Decentralized AI, blockchain, data privacy, federated learning, healthcare.