

Review Form 3

Journal Name:	Archives of Current Research International
Manuscript Number:	Ms_ACRI_131413
Title of the Manuscript:	The Impact of Artificial Intelligence on Cyber Security in Digital Currency Transactions
Type of the Article	Cyber Security

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.	This study is highly relevant to the scientific community as it addresses a critical issue in modern financial technology—securing digital currency transactions from cyber threats. The integration of AI into cybersecurity frameworks presents both opportunities and challenges, making this research significant for policymakers, financial institutions, and cybersecurity experts. The findings contribute valuable insights into the effectiveness of AI in fraud detection while highlighting algorithmic biases and regulatory concerns. Moreover, the paper provides recommendations to enhance AI security, ensuring its ethical and efficient deployment in financial ecosystems.	
Is the title of the article suitable? (If not please suggest an alternative title)	The title, “The Impact of Artificial Intelligence on Cyber Security in Digital Currency Transactions,” is appropriate as it clearly defines the study’s focus. However, a more precise and engaging title could be: “AI-Driven Cybersecurity in Digital Currency Transactions: Enhancing Fraud Detection and Mitigating Ethical Risks.”	
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.	The abstract effectively summarizes the key aspects of the study, including datasets, methodologies, findings, and recommendations. However, it could be improved by briefly mentioning specific AI techniques used in fraud detection (e.g., logistic regression, random forest classifiers) and their effectiveness. Additionally, highlighting a key takeaway regarding algorithmic bias would provide a more balanced summary.	
Is the manuscript scientifically, correct? Please write here.	The manuscript is scientifically sound and presents well-supported arguments with empirical evidence. It effectively integrates theoretical discussions with practical case studies and data analysis. However, the high false-negative rate of 89.54% in fraud detection models raises concerns regarding AI’s reliability in detecting financial crimes. Future improvements in adversarial training and anomaly detection methods could be discussed in greater depth.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The references appear to be sufficient, recent, and relevant. The manuscript cites sources from 2023-2025, ensuring up-to-date perspectives on AI and cybersecurity. However, it may benefit from additional references on post-quantum cryptography and explainable AI (XAI) in financial security, which are emerging trends in the field.	

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Is the language/English quality of the article suitable for scholarly communications?	The language is generally suitable for scholarly communication. However, some sentences could be restructured for clarity, particularly in technical discussions on fraud detection metrics. Minor grammatical refinements would improve readability.	
Optional/General comments	<div><input type="checkbox"/> The discussion on AI bias and fairness metrics is crucial but could include recommendations on bias mitigation techniques, such as fairness-aware machine learning.</div> <div><input type="checkbox"/> The study could briefly discuss the impact of AI regulations, such as the EU AI Act, on digital currency cybersecurity.</div> <div><input type="checkbox"/> Adding a visual comparison of AI models’ effectiveness in fraud detection would enhance the analysis.</div>	

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:

Name:	Ajit Kumar
Department, University & Country	Noida Institute of Engineering and Technology, India