

Peer Review

Review of: "Integrating Quantum Computing with AI: A Perspective on Time Series Forecasting"

Hany Akeel Al-hussaniy¹

1. University of Baghdad, Iraq

This perspective article provides a timely and conceptually rich overview of integrating quantum computing with artificial intelligence for time-series forecasting, successfully highlighting interdisciplinary relevance and summarizing emerging frameworks such as quantum reservoir computing and quantum neural networks; however, the manuscript has several weaknesses that limit its scientific impact and credibility. The major limitation is its heavy reliance on theoretical discussion with minimal critical evaluation or quantitative comparison of existing empirical studies, which weakens the strength of evidence and novelty; additionally, the narrative review methodology lacks transparency regarding article selection criteria, risk-of-bias assessment, and reproducibility, reducing methodological rigor. The manuscript also contains repetitive conceptual explanations, limited critical analysis of contradictory findings, and insufficient technical depth regarding algorithmic complexity, benchmarking datasets, and performance metrics, while figures and tables remain largely conceptual rather than data-driven. To improve quality and scholarly impact, the authors should incorporate systematic or semi-systematic review elements (e.g., PRISMA-guided selection flow, inclusion/exclusion criteria, and quality appraisal), add comparative quantitative summaries of classical versus quantum models, expand the discussion of real experimental implementations and limitations, reduce redundancy in theoretical sections, and include clearer future research frameworks supported by measurable research gaps and validated case studies.

Declarations

Potential competing interests: No potential competing interests to declare.