

Peer Review

Review of: "Hybrid Quantum Neural Networks with Amplitude Encoding: Advancing Recovery Rate Predictions"

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It is an interesting topic, an application of quantum machine learning to the financial problem; it really caught my attention. The writing is reader-friendly, although there are some small details regarding signs, for example, where references 32 and 33 are cited.

However, there are some fundamental doubts. The authors mention the advantage of quantum computing in compressing data; sometimes they mention the input size, and sometimes they mention the input feature, which are essentially different. So in their experiment, I had a doubt: instead of converting the classical data to quantum states, did they only take the input features of each pattern or all the sample patterns?

On the other hand, with only the controlled not gates, they do not generate entanglement, but an initial state passing the Hadamard or rotation gates, generating superposition, and then executing controlled not, they will generate entangled states.

I congratulate you on your work applied to an area full of challenges, except that your contribution is the use of amplitude coding, so those points need to be clarified.

Declarations

Potential competing interests: No potential competing interests to declare.