

Review of: "Application of Ensemble Learning in CXR Classification for Enhancing COVID-19 Diagnosis"

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Potential competing interests: No potential competing interests to declare.

The article explores using ensemble learning methods to improve the accuracy of chest X-ray (CXR) classification for COVID-19 diagnosis. It provides a comprehensive analysis of various ensemble techniques and demonstrates their effectiveness in enhancing diagnostic performance. Following are my observations on the same:

- 1. The dataset details are sparse, which raises questions about the diversity and generalizability of the findings.
- 2. The ensemble learning approach increases computational complexity, which may not be practical for real-time diagnosis in resource-limited settings.
- 3. The study lacks a robust comparative analysis with other state-of-the-art methods, making it difficult to ascertain the true advancement over existing techniques.
- 4. The necessity of using ensemble learning specifically for this purpose should be justified with more extensive comparative studies showing substantial improvements over simpler models.
- 5. The use of ensemble learning can potentially enhance diagnostic performance by combining the strengths of multiple models. However, the paper does not convincingly demonstrate a significant technical advancement over existing methods due to the lack of detailed comparisons and practical considerations.

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