

Review of: "Harnessing the Power of Generative Adversarial Networks (GANs) for Novel Batik Designs: An Exploration of Lightweight GANs (LGANs) for Automatic Batik Design"

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Potential competing interests: No potential competing interests to declare.

The article titled "Harnessing the Power of Generative Adversarial Networks (GANs) for Novel Batik Designs: An Exploration of Lightweight GANs (LGANs) for Automatic Batik Design" presents an intriguing concept focused on social solutions to involve artisans in a specific region. However, I believe some improvements should be made to the article.

-In the introduction, an analysis is needed on the impact of artisanal batik compared to that generated with AI. Would artisanal work be devalued compared to work developed using AI?

-In the paragraph following Figure 2, it states, "AI image upscaling offers several advantages compared to standard upscaling techniques." What are those advantages? Can these advantages be measured?

-The limitations of LGANs also need to be addressed. Can LGANs capture the cultural depth and subtlety of traditional batik?

-Finally, how is the identity and originality of batik ensured in the AI-generated designs?