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Peer Review

Review of: "Influence Functions for Scalable Data Attribution in Diffusion Models"

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This paper proposes a data attribution method based on influence functions, which is used to describe the changes in model outputs after removing certain training data, aiming to address the challenges of data attribution and interpretability in diffusion models.

However, the manuscript requires major revision, and the authors should address the following issues:

- 1. The abstract lacks a detailed description of experimental results. It is recommended that the authors supplement specific experimental data to support the arguments.
- 2. The introduction does not clearly state the advantages of the proposed method over existing methods.
- 3. The method section contains too much basic knowledge. It is suggested to reduce its length and emphasize the novelty of the improvements, or to move it to an appendix.
- 4. The ablation study section lacks experiments to explore the potential challenges of using influence functions in diffusion models.

Declarations

Potential competing interests: No potential competing interests to declare.

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