



Prof. R. Wattenhofer

Evaluating Deepfake Detection Across Image Resolution and Complexity

Generative AI has become widely accessible in recent years, making it easier to create fake content, including deepfake images. Automatically recognizing these generated images is critical to prevent the spread of misinformation. This project focuses on studying how well deepfake detection works when the resolution and complexity of images change.



Objectives:

- Test how image resolution affects deepfake detection performance.
- Explore how the diversity and complexity of a dataset impact detection accuracy.
- Find the limits of current detection methods and identify when detection may fail.

The project will have two main stages 1) generating Deepfake images 2) testing detection models.

Requirements: Strong programming skills in Python and an interest in generative AI.

Weekly meetings will address questions, discuss progress, and brainstorm new ideas.

Contact

In a few sentences, please describe your interest in this project and any relevant coding experience or background (e.g., projects or coursework).

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