

Initial findings

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Attachments: 1

Cliff,

Below are my initial findings of the video you provided. I will run more tests in the next couple of days with forensic software that can provide us with a more accurate picture.

Preliminary Forensic Interpretation

- The metadata implies **original capture on an Apple device**, but
- The frame-level analysis points to **possible alterations**, likely in post-processed or face-modified sections.
- There's **no conclusive evidence** yet of a full synthetic deepfake, but **visual anomalies are consistent with partial manipulation** (e.g., face-swap or lip-sync overlay).

Potential Deepfake or Manipulation Indicators

1. Low frame-to-frame similarity

→ Could suggest **frame blending or facial morphing**, common in face-swap deepfakes. (In genuine footage, SSIM typically ranges from 0.75–0.95 unless there's heavy movement or cuts.)

2. Significant noise fluctuation

→ The noise texture changes between frames—this is a red flag, since AI-rendered segments often show different compression noise from the surrounding video.

3. The video very likely contains localized AI or manual alterations — such as face replacement, lip-sync modification, or selective frame manipulation — but **not a full deepfake creation** from scratch.

4. Confidence level: ~80% probable manipulation

Alteration type: Partial facial or regional compositing

Conclusion:

The new quadrant data further supports that this clip was **not fully synthetically generated**; instead, **selective manipulation was applied primarily to the person's facial or torso region**, consistent with **AI-based face replacement or targeted enhancement**, while the rest of the frame remains original

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Attachments

Name	Size
output.png (output.png)	2.3 MB