2: Methods of Deepfake detection based on Machine Learning

Deepfalse videos are AI generated videos that look real but are actually fake. Using such videos and images, it is easy for malicious about to create arbitrary fake news and fool and mister of the public. Here too finding of technology to decide whether photo was changed with deepfake technology for not with good accuracy.

Deepfalse videos are created using autoencoders and GANS.

Autoencoder contain Encoder part and decoder part. GAN

atto contain 2 neural networks - generator and discriminator

Crenerator Rook Similar to autoencoder net, but better

results can be achieved. Usual indicators used to detect deepfake videos are toosmooth skin, colour mismatch between synthesized face and oxiginal face, Head position, Artifack on small morry parts, eye blinking rate, face warping artifacts and persons patterns of behaviour.

Coleb-Df dataset is used to evaluak model. It contains thousand videos and they are good quality synthesized videos with almost none attracts of oxiginal face, small videos with almost none attracts of oxiginal face, small moving parks and other indicators. Videos are splitted moving parks and other indicators. Videos are splitted frame by frame, exponential blu or krokingholm is applied frame by frame, and each frame is analyzed. If I make the whole video as Deepfake.

Meadpore re Trab Face company artifacts out prepared other indicators. That conclusion bases on fact that great part of present deepfalu adjocithms can synthesize only low resolution face and then they should affine them.

To make picture whole and smooth.

B Our project is to delect deepfalu videos using Rewrich Neural Network. Inorder to Redelect deepfalus videos we head knowledge to about how they are meated and that can be learned from this paper It also helps our project by giving knowledge about best indicators that we should use to delect deepfalus.