**Deepfake in videos**

SE-D-11

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The project focuses on detecting deepfake videos by developing a new model that combines ResNeXt and LSTM architectures. The goal is to create a robust and efficient system capable of identifying deepfakes in real-world, "in-the-wild" conditions. The model is trained on a diverse and challenging dataset to handle various video qualities, lighting conditions, and facial expressions. By integrating spatial and temporal features, it captures both image-level and sequence-level patterns typical of deepfakes. This approach enhances accuracy and generalizability. The project addresses the increasing need for reliable deepfake detection tools, especially as manipulated media becomes more advanced and harder to detect.

Keywords: dataset, deepfake detection, lstm, resnext