

# DeepFake Source Detection via interpreting residue with Biological signals

## Abstract

We know that deepfakes are AI generated videos which look real but are actually fakes. The development of DeepFake was for positive intentions but people started using it for negative purpose. There were developed using CNN in which comparison takes place between the original video and fake video as we know that humans have PPR signals present all over their body which vary according to the situation i.e. the outside interference like light etc. The PPR signals are not visible to the eye as they are due to the heartbeat blood flow, or breathing creating the changes which can be found computationally. Their main focus is on the face regions i.e., ROI (Region of Interest) which includes eye movement, head movement, mouth movements etc.

## Relevance to the project

In the main project also the ROI are used to identify whether the video is fake or not. This includes mouth, eye, head movements etc.