Analysing Of Fake Voice Detecting Using Deep Learning

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Abstract. There are several digital tools available now that allow for the modification of digital information like audio files and are conveniently accessible on mobile devices and personal PCs. Due to the importance of having trustworthy evidence in court, audio forgery detection has been one of the key issues in the forensics profession. These audio recordings that are used as digital evidence might be faked, and methods to determine if they have been forged are needed as new means of creating bogus information emerge. Fake audio can be used for harmful objectives, affecting human life directly or indirectly. Imitation, in which a speaker imitates another speaker using machine learning and signal processing techniques, is one way to create false material. Deep fake audios can detect by using deep learning-based techniques. This paper discusses the techniques that produced deep fake audio and techniques and tools to detect deepfake audio. It describes when analysing those tools found that most deep fake voice generators have over 85 percent of accuracy. Since everyone can access these voice generators free through the internet, criminals and frauds use those tools for illegal purposes. In that case Deep fake voice detectors were introduced. Available tools contain average of 80% percent of accuracy. Since quality of deepfakes has improved, the performance of deepfake Detectors must also improve. For achieving higher percent of accuracy researchers are conducting by varies of companies include Microsoft, Facebook, Google etc. Competition between deep fake voice creators and deep fake voice detectors like competition between rat and cat.

Keywords: *fake voice detection, deep learning*