**Design and Development of Deep-Learning Enabled Audio Spoof Detector**

Abstract

Authentication has become very important aspect of our day today lives starting from normal lock screen pin to human retina based authentication systems. One among those popular and complex authentication systems are the audio based authentication systems where in people use certain words to unlock devices and objects like mobiles, doors etc., Audio Authentication generally involves authentication based on words and voices. Issue in the existing system is that the system verifies and extracts the features of words and voices but it does not classify human voice and recorded human voices. We use LSTMs and Convolutional Neural Networks to achieve this. This project can also be used in various different areas, starting from mobile unlocking system to car door unlocking system. This Deep Learning model can be deployed and used alongside the audio authentication system to classify recorded voices from human voices.