Enhancing Infant Cry Verification Using ECAPA-TDNN Architecture

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Abstract. This paper is concerned with the task of speaker verification on infant cry. Most of the analysis on infants is done on classification like pain, hunger, tiredness, discomfort, eructation and so on. Along with diagnostics and audio pattern recognition of baby crying sound events. In real-world scenarios, cry analysis should be able to differentiate between infant sounds with accuracy. The current paper develops the deep learning framework along with speaker embedding for speaker verification to infant cries. However the use of speaker verification to infant cries has posed some challenges such as Limited speech samples, developmental variability, ethical considerations and so on. This work utilizes the cryceleb2023 dataset available on hugging Face. It employs the ECAPA-TDNN pre-trained model and fine-tuned it based on the specific requirements of the cryceleb dataset. Additionally, data augmentation technique is applied to modify certain parameters that further enhance the performance. As a result, our proposed model achieved significant improvements in the equal error rate (EER) for both the development and test sets.

1 Introduction

Speaker verification is a process that identifies individuals based on their voice. This technology finds applications in various fields such as voice banking, biometrics, credit card authorization and fund transfer[1]. Additionally speaker verification can also be used in infant cry analysis. The goal of this study is to analyze and verify the cry sounds of babies using speaker verification system. These systems enables biometric verification using infants cries and can effectively analyses and verify babies in real-world scenarios. The application of this work is particularly relevant in monitoring and healthcare environments, where accurate background noise cancellation is crucial for verifying the infant cry. The proposed system can be utilized in two specific scenarios. The first scenario aims to prevent the accidental exchange of infants in hospitals and healthcare centers

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