Creating More Meaningful Explanations for Audio Deepfake Detection

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Jaocb LaRock
Matr.-Nr.: 1667321
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Universität Siegen

Fakultät III: Wirtschaftswissenschaften, Wirtschaftsinformatik und Wirtschaftsrecht

Erstprüfer: Gunnar Stevens Gunnar.Stevens@uni-siegen.de

1 Abstract

Abstract filler text blablabla!

2 Introduction

As the use of generative methods for the creation of synthetic voices becomes more widespread, so grows the need for reliable and usable detection methods for the protection of the security of people and businesses alike. The field of Explainable AI (XAI) shows promise for producing useful and interpretable results from such models Much of the existing research, further discussed in the next section, follows the path of producing a model with the best possible benchmarks against datasets of samples, without taking into account if the results can be usefully interpreted, while existing explorations into making audio deepfake detection explainable have produced results that often require a lot of background knowledge to meaningfully interpret With the context of the research discussed in the next section, I would like to use new combinations of features with a novel model architecture to generate explanations for fake or real audio classification that are potentially more useful to their end user.