SUBJECT:

Analysis of speech credibility and voice signal reliability for detecting suspicious user intentions

SUPERVISOR:

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DESCRIPTION:

The doctoral thesis will focus on analyzing the speech credibility and reliability of voice signals for the purpose of detecting suspicious user intentions. It will involve identifying voice features and patterns that indicate potentially fraudulent behavior. The research will employ machine learning models that can detect fraud based on audio data while being resilient to attacks.

The research will investigate the use of voice analysis to improve fraud detection techniques, which are increasingly important in many fields, including finance, security, and law enforcement. The proposed methods will aim to enhance the accuracy and effectiveness of fraud detection systems by analyzing voice data, which provides a rich source of information about the user. The models developed in this study will help reduce the incidence of fraud and improve the overall security of systems that rely on voice authentication.

Overall, this doctoral thesis will provide a valuable contribution to the field of voice analysis and fraud detection. By developing resilient machine learning models, the research will show how voice data can be used to improve the accuracy of fraud detection systems. The findings of this study will have practical applications in many domains and will help prevent fraudulent activities that pose a threat to individuals and organizations.

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