ICACECS2022 Submission 117

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Submission 117	
Title	INTELLIGENT VAULT WITH VOICE BASED APPROACH
Paper:	(May 24, 17:38 GMT)
Author keywords	Voice Recognition Encryption GMM MFCC
Abstract	Voice Vault is a desktop-based application designed and developed using the python programming language. The tool aims to make cloud storage with proper encryption. The encryption algorithm is self-developed, accurate, and secured. Besides encrypted cloud storage, we also provide proper user authentication. User authentication is done via a voice recognition system. Liveliness detection is often used to measure speech characteristics. This encourages the user to express themselves in response to the current action. As an alternative, it can be measured passively to offer a strong additional level of ongoing warranty. Access is granted once the voice of the user has been verified against itself locally and the token sent to the service provider. We developed a voice recognition system using python & machine learning. It won't give access to the user until the voice doesn't match. We used 'python_speech_features' and 'pyaudio' modules of python for taking voice samples and for preprocessing it, we used the GMM model (Gaussian Mixture Model).
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