Diagram

Description automatically generated

<https://www.researchgate.net/publication/359760728_Voice_Biometric_System_-Authentication_Over_the_Voice_Command_from_Remote_Place_-A_Case_Study>

<https://aws.amazon.com/rekognition/>

* Allows for voice and intonation recognition
* Allows for quick access to use

<https://azure.microsoft.com/en-us/products/cognitive-services/speaker-recognition/>

* Speaker recognition, allows for identification within a group

<https://www.informatik.uni-ulm.de/ni/Lehre/SS06/PraktikumNI/Campbell.pdf>

Diagram

Description automatically generated

* Speaker gets to enroll their voice
* Will pass through a filtration system for background noise,
* Voice will be processed
* Output (If needed)

Graphical user interface, diagram

Description automatically generated

<https://www.researchgate.net/profile/Taufiq-Hasan-2/publication/282940395_Speaker_Recognition_by_Machines_and_Humans_A_tutorial_review/links/56aa08c308aef6e05df43e69/Speaker-Recognition-by-Machines-and-Humans-A-tutorial-review.pdf>

* There are a lot of type of features that can be extracted with speaker recognition,

Challenges / Issues will be faced

* Need a high amount of processing
* Background of the recording can affect the sample of the voice during enrolment