Meeami Technologies

(AI Speaker ID)

Data Sheet

Version 1.0

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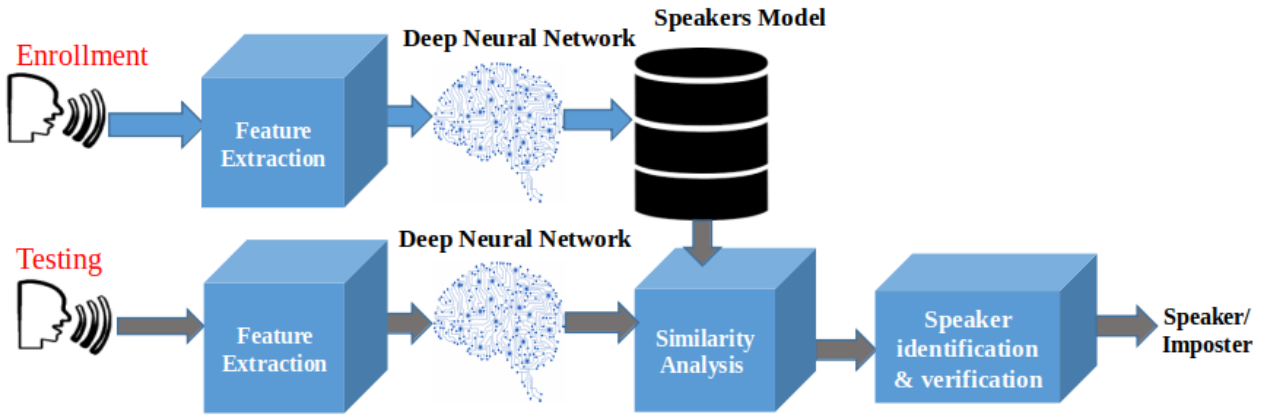
1 Description

Personalize your experience with our AI based speaker ID. With an identification accuracy of more than 95% with very low CPU and memory requirement, its ideal for all personal devices such as phones, smart speakers, smart radios and laptops.



2 Features

2.1.1 KEY KPIS

- TPR: 95% on android mobile phone for single user enrolment use cases.
- FPR: 5% on android mobile phone for single user enrolment.
- CPU: 370MHZ on Android Mobile Phone.
- Latency: less than 350 ms delay.

2.1.2 TEXT DEPENDENT SPEAKER ID

- Uses proprietary feature vector (40-D) and pre-trained background model @2.5 MB
- Operates on frame by frame basis
- Tunes the background model during enrolment
- Provision for updating the background model
- Identification and imposter rejection is 95% and above
- supports specific tuning for max identification or imposter rejection
- CPU: 360MHz (unoptimized), additional 1MHz per new speaker

2.1.3 TEXT INDEPENDENT SPEAKER ID

- Operates once in 200 frames of speech
- Identification Accuracy (IA) - 90%
- Imposter Rejection Rate - 83%
- CPU: Base: 320 MHz (unoptimized)
- Model size : 38 MB
- Every increment in enrolled speaker consumes negligible MHz (around 0.5MHz)
- Average delay: ~2/3 seconds.

3 System Requirement

- CPU usage: Measured on JPV JIO Phone [EVT] with Kai OS.

	Processing time	CPU (Board Clock - 1094MHz)
Enrolment	2.8sec	3063MHz
Verification	0.11sec	120MHZ

- Memory usage:

a. Memory:

b. Total Memory Required: Approx. **7 MB**

c. Table. Memory Usage Approx.

Text Memory	323KB
Data Memory	5225KB
State Memory	100KB
Stack Memory	132KB
Heap Memory	1230KB
Total Memory	7010KB

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