

Forensic Voice Comparison Report

Introduction

Case ID:

Date: 2000-01-01 00:00:00

Suspect Name :

Analyst:

Methodology

1. Data Collection:

Two voice samples were provided for analysis:

- **Suspect Voice Sample:**

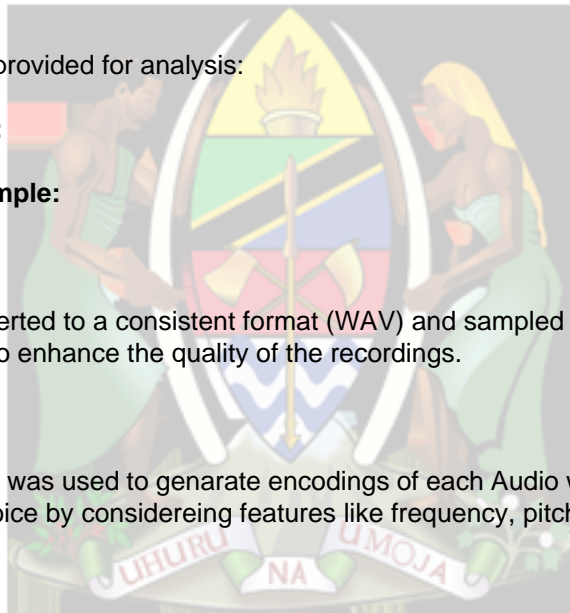
- **Crime Scene Voice Sample:**

2. Pre-processing:

The audio files were converted to a consistent format (WAV) and sampled at 16 kHz. Noise reduction techniques were applied to enhance the quality of the recordings.

4. Comparison:

A Machine learning model was used to generate encodings of each Audio where these encodings contain the uniqueness of each voice by considering features like frequency, pitch, Mel Spectrogram, Amplitude etc



Analysis

Suspect Voice Sample:

- **Duration:** 10 seconds

- **Sampling Rate:** 48000 Hz

Crime Scene Voice Sample:

- **Duration:** 10 seconds

- **Sampling Rate:** 48000 Hz

Results:

- Overall Likelihood Ratio (LR): 0.6899999976158142

Based on the likelihood ratio 0.6899999976158142 Evidence suggests the speakers are likely different.

Conclusion

Based on the likelihood ratio 0.6899999976158142 Evidence suggests the speakers are likely different.

Recommendations:

- Further forensic examination and corroboration with additional evidence are advised to strengthen the findings.

- Consideration of context and other case-specific factors should be taken into account when interpreting the results.

Forensic Analyst

