Forensic Voice Comparison Report

Introduction

Case ID:

Date: 2024-06-15 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 genarate encodings of each Audio where this encodings contain the uniqueness of each voice by considereing features like frequency, pitch , Mel Spectogram , 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