AUDIO FORENSIC ANALYSIS REPORT

Generated on: 2025-09-21 15:11:29

Report ID: REP-20250921-151046

Analysis Date: 2025-09-21 15:11:29

Executive Summary

Analysis Type	Result	Status
Voice Matching	Different Speaker (0.02)	✗ NO MATCH
AI Detection	real (1.0000)	✓ AUTHENTIC
Transcript Match	13.50% similarity	■ LOW

File Information

Property	Value
Duration	12.9 seconds
Sample Rate	16,000 Hz
Channels	1
File Size	412,988 bytes
SHA256 Hash	5c41ff9afe27ae64ef41c0407fd83b91...

1. Voiceprint Comparison Analysis

Same Speaker: False

Similarity Score: 0.0191

Analysis: Voiceprint comparison uses acoustic features to determine speaker identity.

2. AI Synthetic Detection

Classification: real

Confidence Score: 1.0000

Analysis: Machine learning model trained to detect artificially generated speech.

3. Background Noise Analysis

Metric	Value
File1 Features	{'mean_rms': 0.003006978193297982, 'variation': 0.001195971039123833

4. Transcript Comparison

Similarity Score: 13.50%

Original Length: 19 characters

Suspected Length: 144 characters

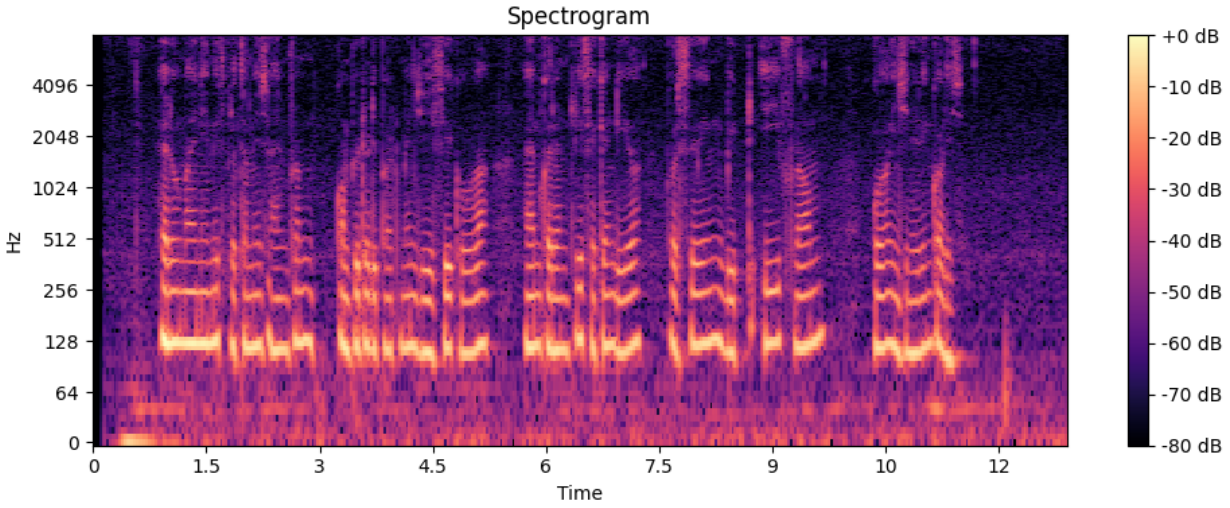
Original Transcript:
1, 2, 3, mic test.

Suspected Transcript:
Hello my name is Prathamesh, I am from the computer department GEC Goa. I am currently second year pursuing BIT-E from Goa Engineering College.

5. Enhanced Spectrogram Analysis

Professional forensic spectrogram with automated anomaly detection and quantitative analysis:

Highlighted Spectrogram (Red boxes = Detected anomalies):



Forensic Spectrogram Legend:

- **Red rectangles:** Computer-detected anomalies (possible editing artifacts)
- **Bright areas:** High-energy frequencies
- **Dark areas:** Low-energy or silent regions
- **Anomaly threshold:** Intensity > 200 (out of 255 max)

6. Report Verification

Scan the QR code below to verify this report's authenticity:

Complete SHA256:
5c41ff9afe27ae64ef41c0407fd83b91de23c94d1f370859add4a0836bab4575