S.No	Problem Statement ID	Problem Statement Name	Domain
11	CT-AICS - 07	Speech Emotion Recognition on live calls for Cyber Crime Police	AI Cyber Sec

Description :

The **Speech Emotion Recognition (SER) Tool** is designed to assist cybercrime police in analyzing the tone and emotional state of individuals during live phone calls. By identifying emotions such as fear, anger, distress, or nervousness, the tool enables law enforcement officers to better assess the mental state of victims, suspects, or informants in real-time.

This tool can enhance decision-making during investigations, prioritize responses to critical calls, and provide insights into the caller's intentions or urgency.

Objectives :

1. **Real-Time Emotion Analysis:**
   - Detect and classify emotions during live calls with victims, suspects, or informants.
2. **Prioritize Critical Cases:**
   - Identify calls where emotions indicate urgency or danger, enabling quick action.
3. **Support Investigations:**
   - Provide additional context about a caller's emotional state, aiding in case analysis and handling.
4. **Improve Victim Assistance:**
   - Understand the emotional condition of victims to offer appropriate support and guidance.

Expectations :

1. **For Police Officers:**
   - A user-friendly interface that displays the detected emotions during live calls.
   - Alerts for emotions indicating distress, fear, or anger to ensure immediate attention.
2. **For Cybercrime Investigations:**
   - Tools to log emotional patterns for suspects or repeat callers to establish behavioral trends.
   - Integration with call records for a holistic view of the case.

Expected Results :

1. **Enhanced Victim Support:**
   - Help officers address victims' concerns empathetically by understanding their emotional state.
2. **Critical Call Prioritization:**
   - Detect calls from distressed victims or nervous suspects and allocate resources promptly.
3. **Efficient Case Handling:**
   - Provide emotional insights that help officers adapt their approach during interrogations or information gathering.
4. **Behavioral Analysis:**
   - Record emotional patterns over multiple interactions to aid in profiling suspects or understanding victim behavior.