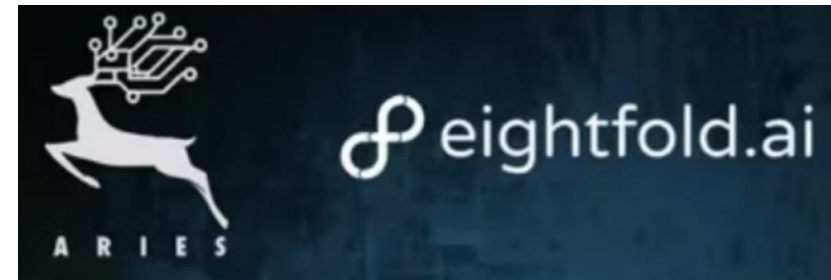


Agentic Flow for AI Interviewer

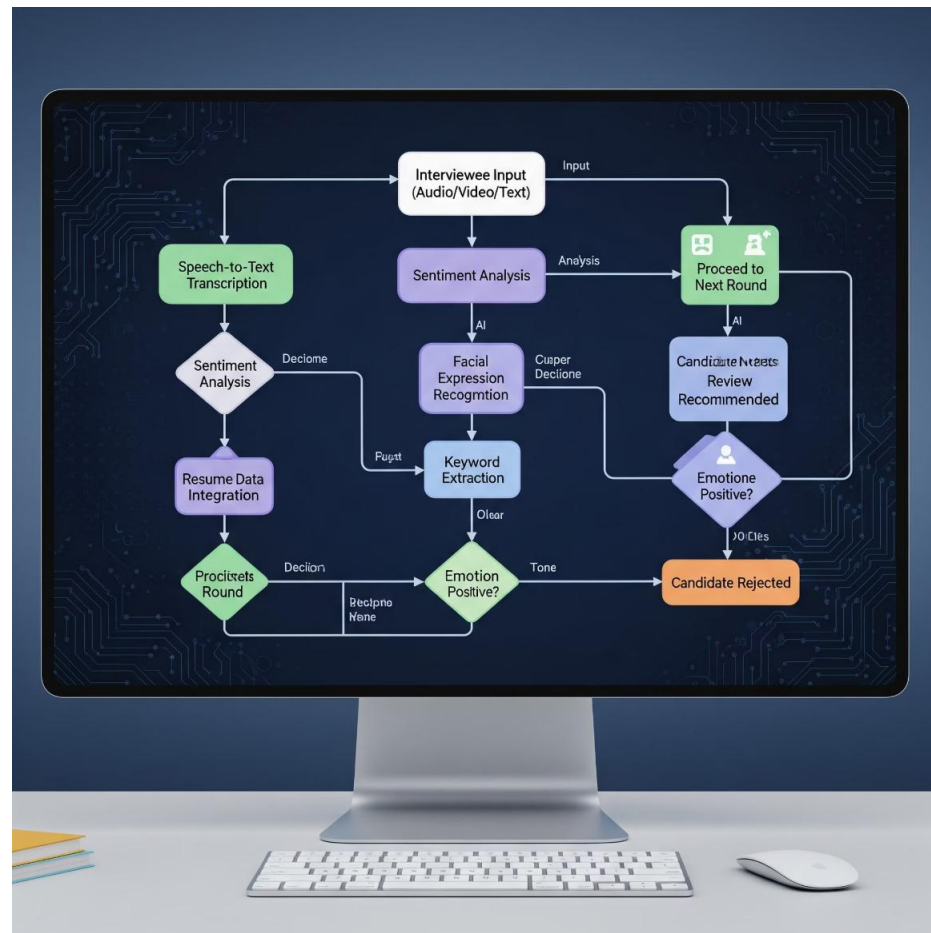
Innov8 3.0 Bonus Challenge Submission

Team - Perceptra

Revolutionizing recruitment through intelligent AI decision-making



Decision-Making Architecture



1

Speech Processing

Convert audio responses to analyzable text format with timestamp precision

2

Sentiment Analysis

Extract emotional context and confidence indicators from candidate responses

3

Contradiction Check

Compare current answers against previous responses for consistency validation

4

Intelligent Action

Execute optimal response: guide, intervene, or proceed based on analysis results

Agentic Flow: Integrated Intelligence

Agentic Flow dynamically combines foundational technologies with intelligent decision-making to redefine AI interviewing, ensuring a responsive and adaptive candidate experience.

The Agentic Flow Cycle



Candidate Input

Data capture & analysis.



Intelligent Analysis

Contextual understanding.



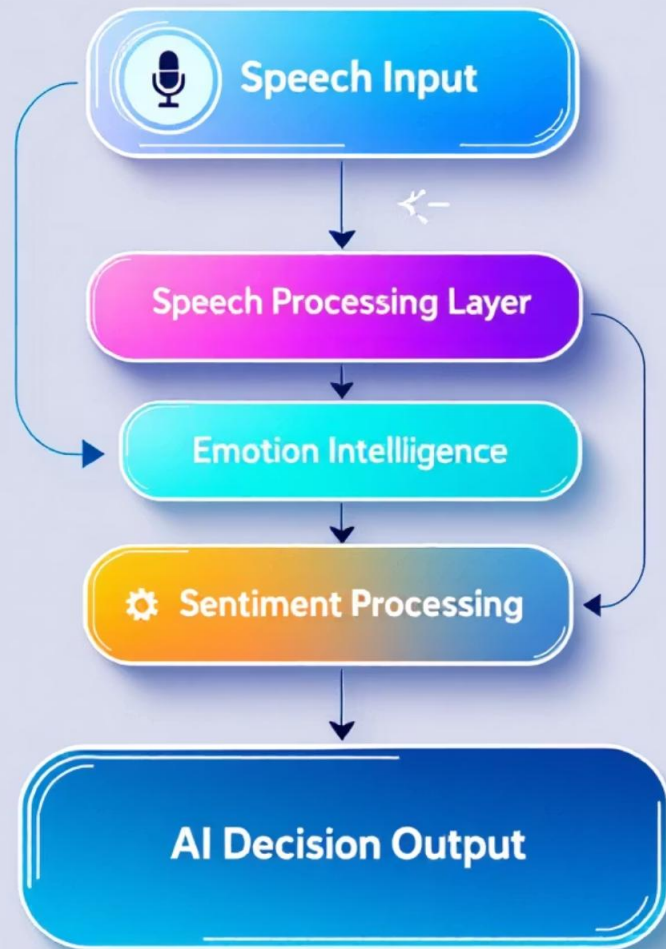
Dynamic AI Response

Guide, intervene, or silent.



Continuous Learning

Adapting strategies.



Technical Architecture Stack

Speech Processing Layer

Whisper & Wav2Vec 2.0 models for accurate speech-to-text conversion.

NLP Analysis Engine

BERT & RoBERTa for semantic understanding and contradiction detection.

Emotion Intelligence

GoEmotions framework for 27+ emotion category analysis.

Sentiment Processing

VADER & TextBlob for real-time sentiment scoring.

Real-World Application Examples



Contradiction Detection

When a candidate states conflicting information about their experience timeline, the system identifies the discrepancy and politely requests clarification to maintain interview integrity.



Emotional Support

Detecting high anxiety levels through speech patterns and emotional markers, the AI provides encouraging guidance to help nervous candidates showcase their true potential.



Future Impact & Vision

1

Paradigm Shift in Recruitment

Our Agentic Flow system creates **adaptive interviews that respond intelligently** to each candidate's unique communication style and emotional state.

2

Enhanced Interview Effectiveness

By seamlessly integrating guidance, intervention, and strategic silence, we enhance interview effectiveness while preserving the human element crucial for successful recruitment.

"The future of recruitment lies in AI that understands not just what candidates say, but how they feel and what they truly mean."