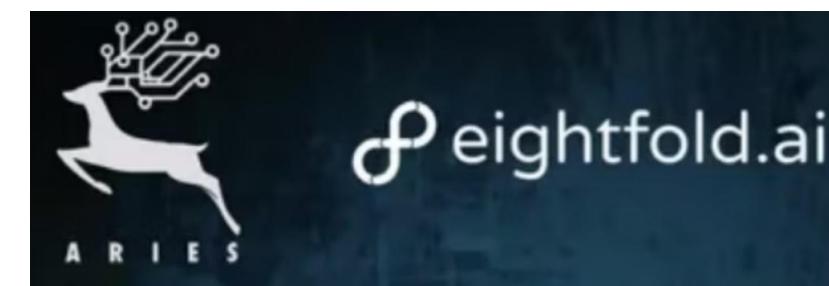


# Agentic Flow for AI Interviewer

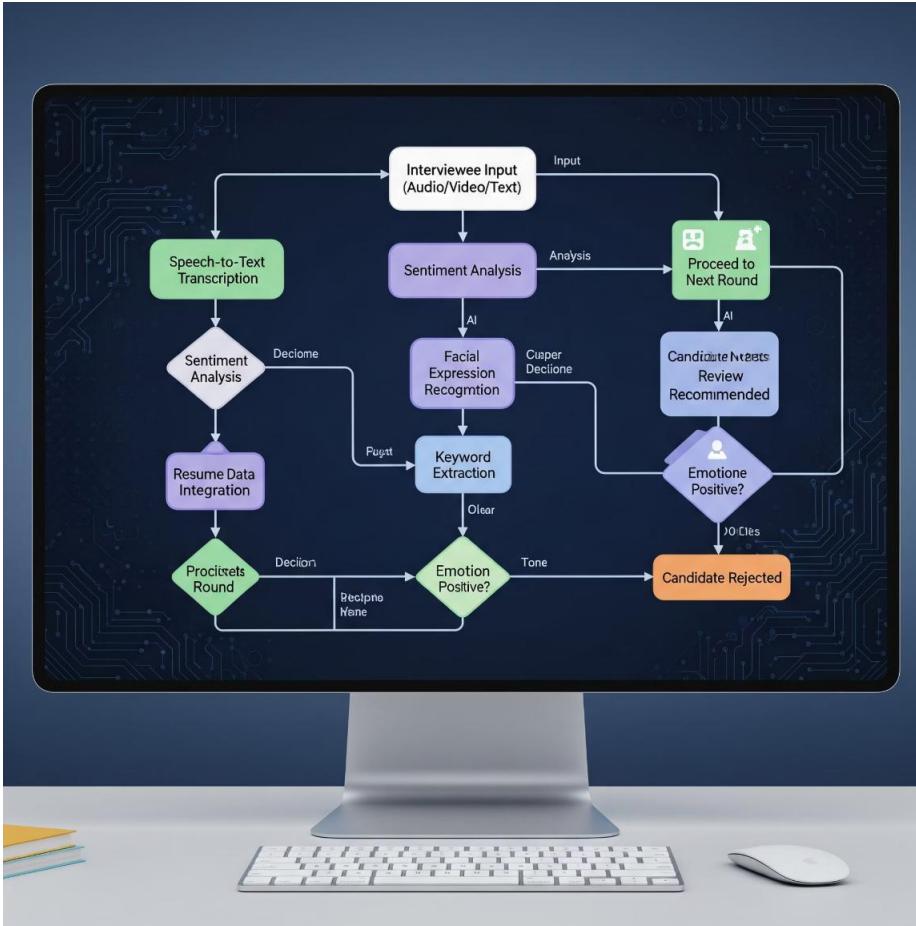
Innov8 3.0 Bonus Challenge Submission

Team - Perceptra

*Revolutionizing recruitment through intelligent AI decision-making*



# Decision-Making Architecture



Speech Processing

Convert audio responses to analyzable text format with timestamp precision

Sentiment Analysis

Extract emotional context and confidence indicators from candidate responses

Contradiction Check

Compare current answers against previous responses for consistency validation

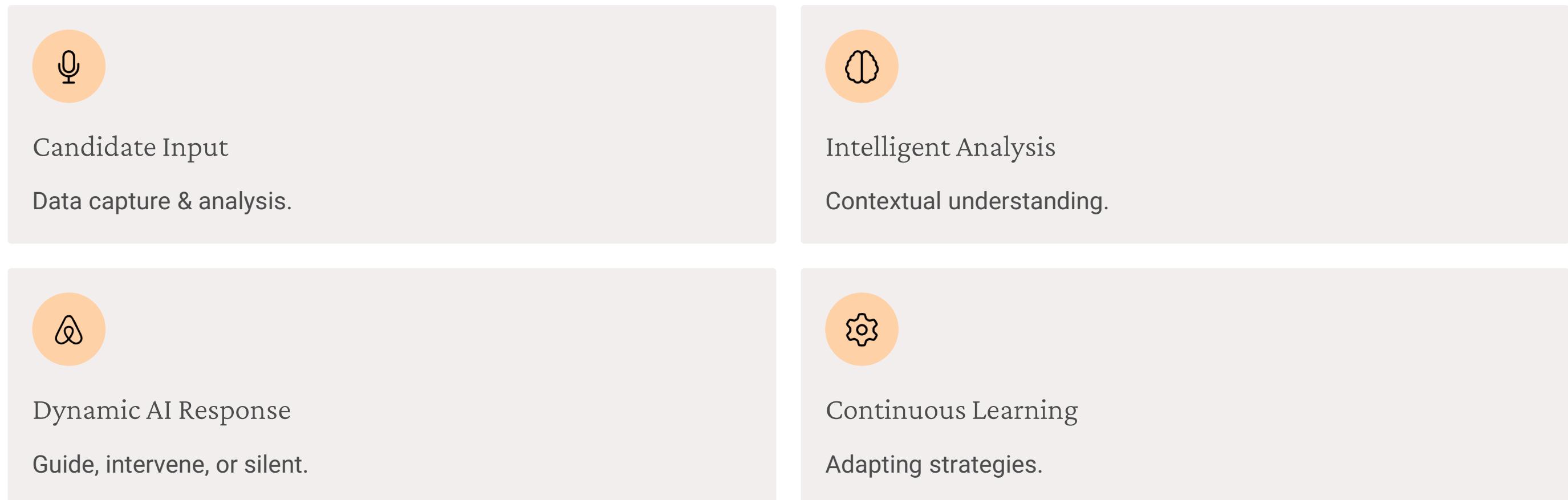
Intelligent Action

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

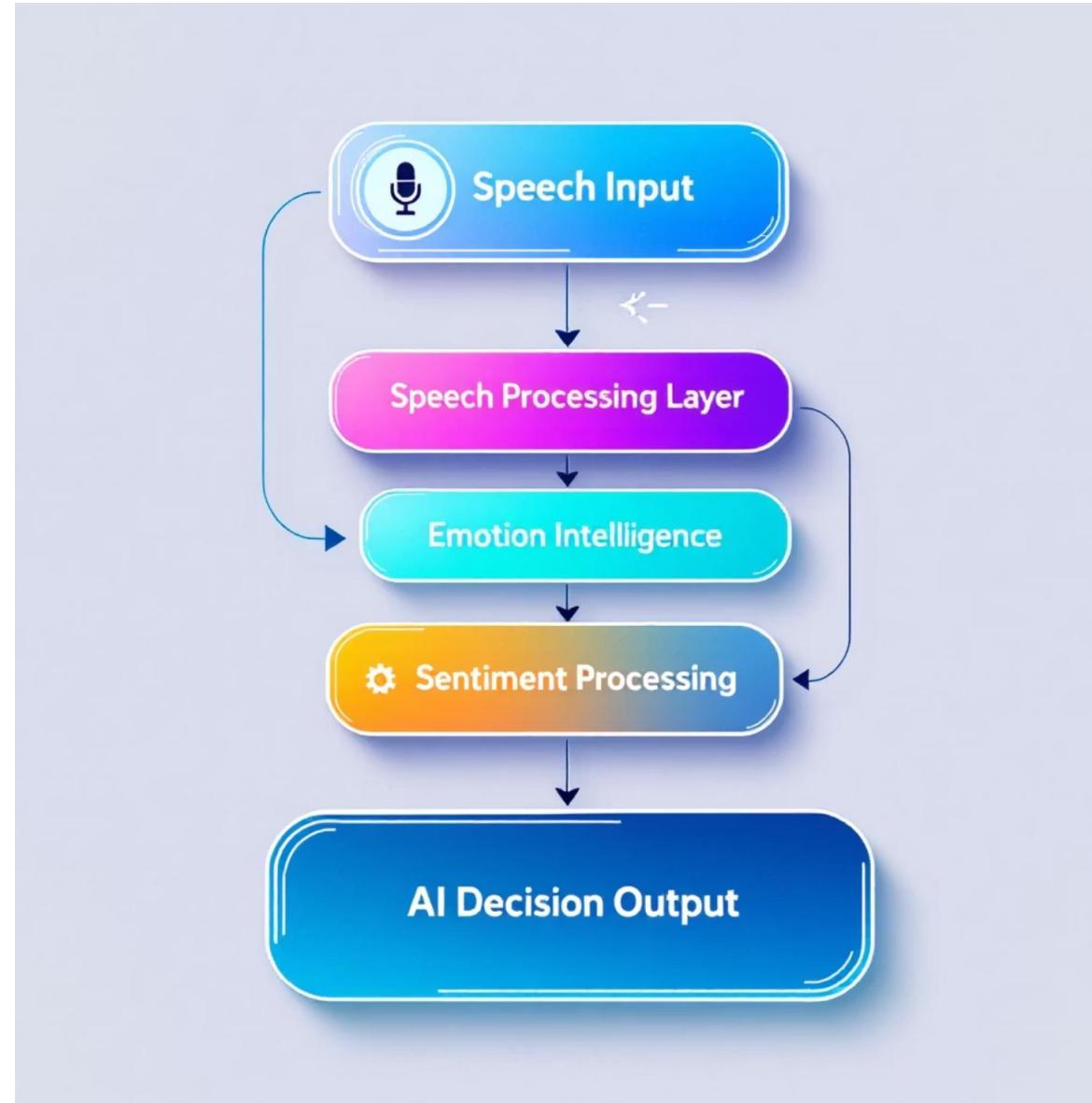
# Agentic Flow: Integrated Intelligence

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



# 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

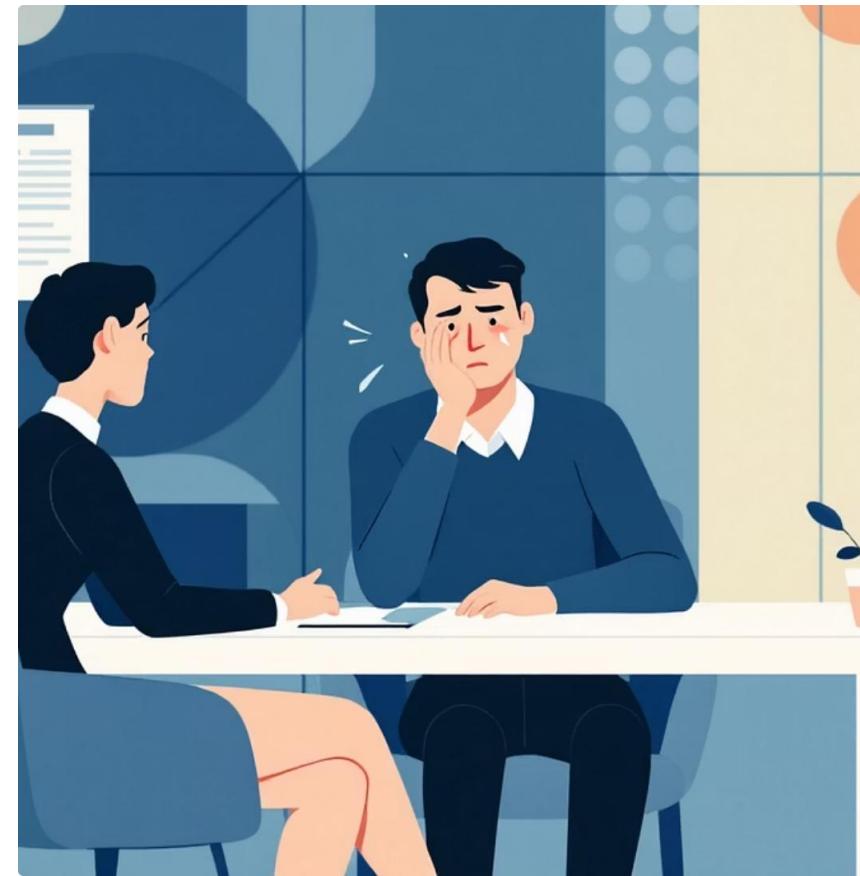
VADER & TextBlob for real-  
time sentiment scoring.

# 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

## Paradigm Shift in Recruitment

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

## Enhanced Interview Effectiveness

- 2 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."*