

## **PROPOSED MULTIMODAL APPROACH FOR EMOTION AND BEHAVIOUR ANALYSIS IN INTERVIEW DIALOGUES**

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### **ABSTRACT**

*This paper introduces a smart system that automatically analyses interview performance using different types of data. It improves on traditional methods, which often rely on subjective or general feedback, by providing objective and data-based insights into how a candidate communicates and behaves.*

*The system looks at multiple aspects of an interview. It uses video analysis to study facial behaviour such as eye contact and expressions, audio analysis to understand speech patterns like pitch and energy, and text analysis to examine what the candidate says, including the use of filler words. All these insights are combined using a scoring method to give a clear and understandable performance evaluation.*

*Overall, this approach helps in gaining deeper insights into interview performance and can be used for scalable applications such as interview coaching, education, and recruitment.*

**KEYWORDS:** *Speech Emotion Recognition (SER), Natural Language Processing (NLP), Multimodal Analysis, Interview Performance Evaluation, Affective Computing, Emotion Shift Modelling, Prosodic Feature Extraction, Temporal Behaviour Analysis, Computer Vision, Speech Processing*

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### **Article History**

**Received: 24 Apr 2026 | Revised: 25 Apr 2026 | Accepted: 27 Apr 2026**

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