

# A Review of Emotion Detection Datasets and Deep Learning Techniques

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**Abstract:** Facial expression-based emotion identification is an intriguing research subject with applications in safety, health, customer service, and human-machine interactions. This technology's success has led to the development of several deep learning architectures to improve performance. This article reviews current deep learning research in facial emotion recognition (FER). Highlight the contributions, architecture, and databases used, and show progress by comparing the suggested techniques to the outcomes. Deep learning models, especially CNNs, offer great promise among all FER techniques because to their automated feature extraction and computational efficiency.

**Keywords:** Facial databases, deep learning, and facial emotion identification