**Sound-IT**

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Sound-IT is a research project aimed at using artificial intelligence and computer vision to recognize emotions in videos and create tunes that fits those emotions. we created four models to determine the emotional tone of a video: facial expression detection, background hue recognition, body emotion recognition, and lip reading. After that, a tune that matches the detected emotion is generated. The proposed method offers a potential solution to the problem of high costs associated with composing and recording original music for films. The first results of the model are quite positive with 85% of correlation between tunes and videos.

**Keywords:** emotion recognition , computer vision, action recognition, music generation, RNN, keypoints,