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| **Year and citation** | M. Athavle, D. Mudale, U. Shrivastav and M. Gupta (2021) Music Recommendation Based on Face Emotion Recognition. Journal of Informatics Electrical and Electronics Engineering, Vol. 02, Iss. 02, S. No. 018, pp. 1-11, 2021 | Armaan Khan,Ankit Kumar,Abhishek Jagtap Facial Expression based Song Recommendation: A Survey. Journal of Computer Science and Engineering MIT-ADT University, Pune, 412201, India | Bouzakraoui, M.S., Sadiq, A. and Alaoui, A.Y.(2019). Appreciation of Customer Satisfaction Through Analysis Facial Expressions and Emotions Recognition. [online] IEEE Xplore. doi:10.1109/ICoCS.2019.8930761. |
| **Article title** | Music Recommendation Based on Face Emotion Recognition | Facial Expression based Song Recommendation: A Survey | Appreciation of Customer Satisfaction through Analysis Facial Expressions and Emotional Recognition |
| **Purpose of study** | The proposed system benefits us to present interaction between the user and the music player. The purpose of the system is to capture the face properly with the camera. Captured images are fed into the Convolutional Neural Network which predicts the emotion. The main aim of our proposed system is to provide a music playlist automatically to change the user's moods, which can be happy, sad, natural, or surprised. | The aim of this paper was to explore the field and research done in regard to automatic song recommendations based on the facial expression of a person. This type of recommendation system will be very useful for people because of its de-pendency on the user’s emotions rather than the user’s past history. This system can reduce the manual work of creating a playlist by a user and automatically create a playlist for the user and he can spend that time listening to music. | This aims to predict the satisfaction of a customer through his emotions. This system must predict customer's behavior in the decision-making process. For this end, first we extract geometric features form customer's emotional faces, captured from local camera placed near the products. Then, to predict customer satisfaction, we have classified these features using adapted SVM classifier. |
| **Tools and software used** | Convolutional neural networks (CNN) | Artificial Neural Networks (ANN) | Jupyter Lab |
| **Comparison of techniques done** | Support Vector Machine(SVM) | Support Vector machine  Multi-layer Perceptron Model | Support Vector Machine (SVM) |
| **Evaluation parameters** | Validation accuracy  Testing accuracy | Model Accuracy | Model Accuracy |