(12) PATENT APPLICATION PUBLICATION   (21) Application No.202311039503 A

(19) INDIA

(22) Date of filing of Application :09/06/2023   (43) Publication Date : 07/07/2023

(54) Title of the invention : EXPRESSION-BASED MUSIC RECOMMENDATION SYSTEM AND METHOD

(51) International classification	:C07K 140050, G06F 166350, G06F 166380, G06F 166800, G06F 166830	(71)**Name of Applicant :**
		  1)Chitkara University
		    Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------
		   2)Chitkara Innovation Incubator Foundation
		Name of Applicant : NA
		Address of Applicant : NA
		(72)**Name of Inventor :**
		  1)KHULLAR, Vikas
		Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------

(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
A system (100) for music recommendation based on a facial expression of a user (102), the system (100) comprising a media player (104) configured to play recommended music to the user (102), an image acquisition unit (112) configured to acquire an image of the user (102), and a processing unit (116) is configured to receive the acquired image of the user (102) from the image acquisition unit (112) and extracted one or more attributes from the received image by a facial recognition unit (114), extracted one or more attributes of the facial expressions of the user(102). Further, compare extracted one or more attributes of facial expressions of the user (102) stored in a database (210) and correspondingly recommend one or more music files to the user (102) using a machine learning technique. The media player (104) facilitates the user to choose recommended music files and plays the chosen songs.

No. of Pages : 26 No. of Claims : 10