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	   1)**Chitkara University**
	     Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------
	   2)**Bluest Mettle Solutions Private Limited**
	 Name of Applicant : NA
	 Address of Applicant : NA

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	(72)**Name of Inventor :**
	   1)**MISHRA, Rahul**
	 Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune ----------- -----------

(87) International Publication No : NA	2)**PANDEY, Sakshi** Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune ----------- -----------
(61) Patent of Addition to Application Number : NA Filing Date : NA	3)**MANTRI, Archana** Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----------- -----------
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(57) Abstract :

The personalized activity recognition system (100) is designed to enhance accuracy and personalization through a combination of components. The system collects sensor data from diverse sources through a data collection module (102), which is then refined using a data processing module (104) involving filtering, segmenting, and feature extraction. The hybrid user-activity model module (106) blends user context with a predefined activity model to enhance recognition accuracy, while the machine learning module (108) employs various techniques to classify activities effectively. The system adapts to individual user patterns and preferences, offers seamless integration with wearable devices and smartphones, and includes additional modules like feedback collection and alert systems for a comprehensive and user-centric experience.

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