

Department of Computer Science

St. Francis Xavier University

Presents

Understanding the Views of Physicians, Nurse Practitioners, Registered Nurse, and Medical Students on Activity Monitors

by

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The increasing prevalence of wearable devices and activity monitors offers significant potential for healthcare professionals to use these tools in their practice for promoting healthier lifestyles and managing chronic health conditions. This study aims to explore the views of physicians, nurse practitioners, registered nurses, and medical students on the use of activity monitors in their profession, and to identify the most important features that influence their willingness to incorporate these devices into their practice.

A comprehensive literature review was conducted to establish the context and background of the use of wearable devices and activity monitors in healthcare settings. An extensive dataset was collected, capturing the views and opinions of the targeted healthcare professionals regarding the use of activity monitors.

Various machine learning algorithms were employed to analyze the dataset and identify the most influential features in determining the healthcare professionals' willingness to use activity monitors. The algorithms' performance was compared to determine the most suitable approach for this task. To identify the most important features, some statistical models were employed.

The findings of this study will provide valuable insights into the preferences and concerns of healthcare professionals regarding the integration of activity monitors into their practice, and highlight the key features that contribute to their willingness to adopt these devices. This understanding will facilitate the development of tailored strategies to promote the adoption of wearable technology in healthcare settings, ultimately contributing to improved patient outcomes and enhanced management of chronic health conditions related to physical inactivity.