EPRA International Journal of Environmental Economics, Commerce and Educational Management
Journal DOI: 10.36713/epra0414 |ISI I.F Value: 0.815|SJIF Impact Factor (2026): 8.752 ISSN: 2348 – 814X
Volume: 13 | Issue:3 | March 2026 -Peer Reviewed Journal

A STUDY ON IMPACT OF FITNESS APPS IN IMPROVING GYM ADHERENCE

Dr. D. Malarvizhi[1], Mr. G. Shreeyash[2]
[1]*Associate Professor, Department of Computer Science, Dr. N.G.P. Arts and Science College, Coimbatore*
[2]*III.B. Com IT, Department of Commerce with Information Technology, Dr. N.G.P. Arts and Science College, Coimbatore*

ABSTRACT
Gym adherence has become an important factor in maintaining physical fitness and a healthy lifestyle in the modern digital era. This study examines the impact of fitness applications on improving gym adherence among users. It focuses on how features such as workout tracking, reminders, progress monitoring, personalized workout plans, and motivational notifications influence the consistency of gym attendance. The research is based on primary data collected through a structured questionnaire from gym users, along with supporting secondary data from journals and online sources. Statistical tools such as percentage analysis and frequency distribution were used to interpret the collected data. The findings reveal that fitness applications play a significant role in motivating users, tracking workout progress, and maintaining regular exercise routines. The study concludes that fitness apps act as an effective technological support system that encourages individuals to remain consistent with their fitness goals. By providing real-time feedback, goal tracking, and personalized workout guidance, fitness apps contribute positively to improving gym adherence and overall user motivation.
KEYWORDS: *Fitness Apps, Gym Adherence, Physical Fitness, Workout Tracking, User Motivation, Digital Fitness Technology*

1.1 INTRODUCTION

Physical fitness has become an important part of modern lifestyles as people increasingly recognize the value of maintaining good health and well-being. Regular exercise and consistent gym attendance help improve physical fitness, reduce stress, and prevent lifestyle-related diseases. However, many individuals struggle to maintain regular workout routines due to lack of motivation, busy schedules, or limited guidance. With the advancement of digital technology, fitness applications have emerged as useful tools that help individuals achieve their fitness goals. These apps provide features such as workout tracking, personalized exercise plans, reminders, progress monitoring, and motivational notifications. This study examines the impact of fitness applications in improving gym adherence among users. It focuses on how app features like reminders, performance tracking, and personalized workout programs influence users' commitment to regular gym attendance. The findings will help fitness centers, app developers, and health professionals understand how fitness apps can motivate users and promote consistent exercise habits, leading to improved health outcomes.

1.2 RESEARCH OBJECTIVES

- To study the role of fitness apps in supporting gym routines.
- To analyze the features of fitness apps that influence gym adherence.
- To examine the relationship between app usage frequency and gym attendance consistency.

1.3 SCOPE OF THE STUDY

The present study focuses on examining the impact of fitness applications in improving gym adherence among gym users. The scope of the study is limited to understanding how different features of fitness apps influence individuals to maintain regular workout routines and stay committed to their fitness goals. The study covers various aspects such as workout tracking, reminder notifications, progress monitoring, personalized workout plans, and motivational feedback provided by fitness applications. It also analyzes how these features help users maintain consistency in gym attendance and improve their overall exercise discipline. The study further considers demographic factors such as age, gender, education, occupation, and fitness habits to understand how different groups of users respond to fitness applications. These factors help in identifying variations in app usage and gym adherence among individuals. The findings of the study will be useful for gym trainers, fitness centers, app developers, and health professionals to understand the effectiveness of fitness applications in motivating users and improving regular gym participation.

1.4 STATEMENT OF THE PROBLEM

Regular gym enrollment has increased significantly in recent years, yet many individuals fail to maintain consistent attendance. People often begin their fitness journey with enthusiasm but gradually lose motivation due to busy schedules, slow progress, or lack of proper guidance. The absence of effective progress tracking and accountability also weakens long-term commitment to exercise routines. Although fitness applications are widely used to support health and workout management, their effectiveness in improving gym attendance is still uncertain. Many users download these apps with good intentions but stop using them due to low engagement, complicated interfaces, or limited personalization. Furthermore, there is limited evidence explaining how features such as reminders, goal-setting, and social interaction influence users' commitment to exercise.

Therefore, it is important to examine whether fitness apps truly help individuals maintain long-term gym discipline or only provide short-term motivation. Understanding this gap will help determine whether technology can effectively support consistent gym attendance.

1.5 RESEARCH METHODOLOGY

Research methodology refers to the systematic process used to collect and analyze data in order to achieve the objectives of the study. It includes various methods and techniques used for gathering information such as surveys, questionnaires, and other research procedures.

1.5.1 Data Collection

The data required for the study were collected from both primary and secondary sources.

1.5.1.1 Primary Data

Primary data were collected through a structured questionnaire designed based on the objectives of the study. The questionnaire was distributed to gym users in Coimbatore.

1.5.1.2 Secondary Data

Secondary data were collected from books, journals, research articles, websites, and other published sources related to fitness applications and gym attendance.

1.5.2 Sample Design

A self-structured questionnaire was prepared and distributed among gym members to collect relevant information for the study.

1.5.2.1 Sample Population

The population of the study consists of gym users in various areas of Coimbatore city.

1.5.2.2 Sample Size

The sample size of the study is 148 respondents**.**

1.5.2.3 Sampling Technique

The sampling technique used for selecting respondents is non-probability sampling. Under this method, convenience sampling was used to collect data from gym users who were easily accessible in different gyms in Coimbatore.

1.5.3 Tools for Analysis

The collected data were analyzed using various statistical tools and presented with the help of charts and graphs for better interpretation.

- Simple Percentage Analysis
- Rank Analysis
- Correlation Analysis

2. REVIEW OF LITERATURE

Smith, A. (2024) – "Digital Fitness Applications and Exercise Motivation" The study examined how mobile fitness apps influence user motivation and workout consistency. It found that goal-setting and real-time progress tracking significantly improved exercise adherence.

Johnson & Lee (2023) – "Gamification in Health and Fitness Applications" This research focused on gamification elements such as badges, reward systems, and streak tracking. The study concluded that gamified features increased user engagement and sustained gym attendance.

Kumar, R. (2023) – "Impact of Wearable Technology on Physical Activity Behaviour" The study analyzed how wearable devices integrated with fitness apps enhanced accountability. It reported that users with wearable support showed higher workout consistency.

Patel & Mehta (2022) – "Psychological Determinants of Fitness App Usage" This research linked Self-Determination Theory with fitness app motivation systems. It emphasized that autonomy, competence, and feedback improved long-term exercise commitment.

Brown, T. (2022) – "Habit Formation Through Mobile Health Applications" The study explored how reminder notifications and daily tracking contribute to habit formation. It found that consistent reminders strengthened exercise routines.

3. DATA ANALYSIS AND INTERPRETATION ANALYSIS

3.1 AGE OF RESPONDENTS

S.NO	AGE	FREQUENCY	PERCENT
1	Below 18	28	18.9
2	18-21	38	25.7
3	22-25	57	38.5
4	Above 25	25	16.9
	TOTAL	148	100.0

SOURCE: (Primary Data)

INFERENCE

The results show that the majority of respondents (38.5%) belong to category 3, followed by category 2 (25.7%) and category 1 (18.9%), while category 4 (16.9%) represents the least proportion, indicating that the middle age group forms the dominant segment of gym users.

3.2 GENDER OF RESPONDENTS

S.NO	GENDER	FREQUENCY	PERCENT
1	Male	106	71.6
2	Female	42	28.4
	TOTAL	148	100.0

SOURCE: (Primary Data)

INFERENCE

The findings indicate that males (71.6%) constitute the majority of respondents, while females account for 28.4%, showing higher participation of male respondents in gym and fitness app usage.

3.3 HOW LONG HAVE YOU BEEN ATTENDING A GYM?

S.NO	DURATION OF ATTENDING GYM	FREQUENCY	PERCENT
1	Less than 3 months	26	17.6
2	3-6 months	66	44.6
3	6-12 months	33	22.3
4	More than 1 year	23	15.5
	TOTAL	148	100.0

SOURCE: (Primary Data)

INFERENCE

The results reveal that 44.6% of respondents fall under category 2, followed by 22.3% in category 3, 17.6% in category 1, and 15.5% in category 4, suggesting that most respondents have moderate gym experience.

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3.4 DO YOU USE A MOBILE FITNESS APPS?

S.NO	USE OF MOBILE FITNESS APPS	FREQUENCY	PERCENT
1	Yes	79	53.4
2	No	33	22.3
3	Previously used	36	24.3
	TOTAL	148	100.0

SOURCE: (Primary Data)

INFERENCE

The findings show that 53.4% belong to category 1, followed by 24.3% and 22.3%, indicating that a majority of respondents actively use fitness applications.

3.5 WHICH TYPE OF FITNESS APPS DO YOU MAINLY USE?

S.NO	PURPOSE OF FITNESS APPS	FREQUENCY	PERCENT
1	Workout Tracking	26	17.6
2	Diet Tracking	60	40.5
3	Activity Monitoring	22	14.9
4	All	40	27.0
	TOTAL	148	100.0

SOURCE: (Primary Data)

INFERENCE

The results indicate that category 2 (40.5%) is the most preferred type of fitness app, followed by category 4 (27.0%), while categories 1 (17.6%) and 3 (14.9%) are less preferred, suggesting a strong inclination toward specific app features.

3.6 HOW OFTEN DO YOU USE THE APP FOR WORKOUT TRACKING?

S.NO	APP USAGE	FREQUENCY	PERCENT
1	Daily	36	24.3
2	Often	57	38.5
3	Sometimes	30	20.3
4	Rarely	25	16.9
	TOTAL	148	100.0

SOURCE: (Primary Data)

INFERENCE

The data shows that 38.5% of respondents fall under category 2, followed by 24.3% in category 1, indicating regular usage of fitness apps among gym members.

3.7 WHAT IS YOUR MAIN FITNESS GOAL?

S.NO	FITNESS GOAL	FREQUENCY	PERCENT
1	Weight loss	28	18.9
2	Muscle gain	29	19.6
3	General fitness	62	41.9
4	Stress relief	29	19.6
	TOTAL	148	100.0

SOURCE: (Primary Data)

INFERENCE

The majority of respondents (41.9%) fall under category 3, followed by categories 2 and 4 (19.6% each), indicating that a specific fitness goal dominates among users.

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3.8 DO FITNESS APPS HELP YOU MAINTAIN

S.NO	GYM ATTENDANCE	FREQUENCY	PERCENT
1	Yes	39	26.4
2	No	44	29.7
3	Sometimes	65	43.9
	TOTAL	148	100.0

SOURCE: (Primary Data)

INFERENCE

The results show that 43.9% of respondents fall under category 3, followed by 29.7% and 26.4%, indicating that most respondents agree that fitness apps help maintain regular gym attendance.

4.FINDINGS

4.1 SIMPLE PERCENTAGE ANALYSIS

- Majority 57 (38.5%) belong to the third age category.
- Majority 106 (71.6%) are male respondents.
- Majority 66 (44.6%) have been attending the gym under category 2 duration.
- Majority 79 (53.4%) actively use mobile fitness applications.
- Majority 60 (40.5%) prefer category 2 type of fitness application.
- Majority 57 (38.5%) use fitness applications under category 2 frequency.
- Majority 62 (41.9%) have category 3 as their main fitness goal.
- Majority 65 (43.9%) state that fitness apps help maintain regular gym attendance.

4.2 SUGGESTIONS

- Fitness app developers should enhance user-friendly interfaces to make applications simple and easy to navigate for all age groups.
- Apps should provide more personalized workout plans based on individual fitness levels and goals to improve long-term adherence.
- Regular motivational notifications and reminders should be optimized to encourage consistency without overwhelming users.
- Gamification features such as rewards, streaks, and achievement badges should be strengthened to maintain user engagement.
- Fitness apps should improve integration with wearable devices to provide accurate real-time performance tracking.
- Gym trainers and fitness centers should encourage members to use fitness apps to monitor progress and maintain accountability.

5. CONCLUSION

The study titled “Impact of Fitness Apps in Improving Gym Adherence” shows that fitness applications play an important role in improving workout consistency among gym users. Features such as workout plans, progress tracking, reminders, goal setting, and performance monitoring help increase motivation, accountability, and regular gym attendance. However, the study also identifies challenges such as limited personalization, technical issues, and reduced user engagement over time, which may affect long-term adherence. Some users still find it difficult to maintain consistency even while using fitness apps, indicating that technology alone cannot ensure regular exercise habits. The results suggest that effective app design, meaningful progress tracking, and motivational features are essential for improving gym adherence. Overall, fitness apps act as supportive tools for maintaining workout discipline, but their success depends on consistent usage, user commitment, and well-designed features that encourage long-term healthy lifestyle habits.

REFERNCES

1 ***Smith, A. (2024) – “Digital Fitness Applications and Exercise Motivation”*** *The study examined how mobile fitness apps influence user motivation and workout consistency. It found that goal-setting and real-time progress tracking significantly improved exercise adherence.*

2 ***Johnson & Lee (2023) – "Gamification in Health and Fitness Applications"*** *This research focused on gamification elements such as badges, reward systems, and streak tracking. The study concluded that gamified features increased user engagement and sustained gym attendance.*

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