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Knowing AI Technology Applications & Individuals Interest in using these for Healthcare

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Abstract

Humans & Technology have become inseparably connected in carrying out day to day activities to managing multitasks. With their applications paving way in almost every fields, especially health related like Pharmaceutical Research, healthcare providers in hospitals making complex things simpler powered by Artificial Intelligence Technology. We tried a survey by questionnaire method for understanding their priority of healthcare apps used in India in managing health with theme managing health with technology. A total of 193 responses collected by survey and the entire data represented as numerical responses in pictorial graphs making clear to understand their overall responses to carry out further developments in creating advanced healthcare apps with more personalized experience meeting user expectations with satisfaction. The overall responses received showed they are interested to have healthcare apps with more advanced features like Artificial Intelligence Technology assisted technology to monitor both their health & family members.

Keywords: Healthcare, artificial intelligence technology

Introduction

Present day every individual irrespective of their region, race, gender, profession, literacy using technology integrated with enumerable applications in their mobile phones in carrying out their day to day complex activities in simpler way. Acknowledging their applications in drug discovery, research including optimization studies as multitasked for many researchers of varied fields. Let's understand Artificial Intelligence Technology (ArI) assisted technology and how its standing among all other technologies as first developed by mathematician Alan Turing & John McCarthy as human intelligence simulator programmed for learning based on inputs we give like finding meaning, reasoning giving suggestions based on past experiences. It is being developed by many companies & equipping with enumerable applications in giving a more personalized user experience as assistant which we all are familiar generally in shopping sites. Many apps developed come with licenses with access to the user upon registrations & varies making it unique & protected. Speaking about the healthcare apps (Baig *et al.*, 2015) ^[7] they all are designed according to the needs provided by the company for getting maximum information pooled for processing further needs (Ullah *et al.*, 2023) ^[9] and giving quick response with abundant options to choose from (Mosa *et al.*, 2012) ^[8].

This ArI assisted technology innovation can be developed to explore many new horizons which are not limited to for the following advantages as below

- Error Minimization
- Accurate Imaging
- Optimization of Hospital Related Tasks
- Medical Data Collection
- Intervention Studies
- Continuous Learning & Adaptability
- Accessibility to Resources
- Cost Efficient
- Facilitates Networking & Knowledge Sharing across the globe

Throwing light on current ArI assisted technology apps in healthcare with their functionality ^[3, 4], few examples are given in Table 1 below.

Table 1: Artificial intelligence assisted developed technologies with their respective applications

S. No	Name of the Artificial Intelligence Technology	Functionality
1.	IBM Watson healthcare app	Oncology- helps in analyzing vast literature of research and collecting patient information assists oncologist in designing personalized treatment plans.
2.	Google's DEEPMIND healthcare app	Kidney injury care-helps intervening patient input about the kidney injury giving early recovery options.
3.	PathAI healthcare app	Pathology based diagnosis - helps in identification of the diseases based on the biopsy diagnosis.
4.	ZEBRA medical vision healthcare app	Cardiovascular & liver care-helps in radiology imaging.
5.	DreaMed healthcare app	Diabetes care- helps in optimization & managing insulin.
6.	IDx-DR healthcare app	Diabetic retinopathy care- helps in rapid imaging of retinal images & diagnosis.
7.	Tempus healthcare app	Cancer care-helps in analyzing at clinical & molecular level of cancer
8.	Butterfly network healthcare app	Ultrasound imaging- helpful in diagnosis image interpretation
9.	Ada healthcare app	Symptom checker- helps in seeking medical advice.
10.	Buoy healthcare app	Virtual healthcare assistant- helps in giving personalized advice with the given input of symptoms.
11.	Prognos healthcare app	Disease detection- helps in seeking early detection based on clinical & diagnostic data like cancer & diabetes care.
12.	Insilico medicine	Designed for drug discovery -helps in identification of drug candidates from optimization to developing.
13.	Cancer Aid healthcare app	Designed for cancer care-helps in monitoring personal information with symptoms to giving virtual assistance.
14.	Anatomi	Assists dermatologists- helps in analyzing the images of dermatological issues and giving virtual support to patients.
15.	Adastra healthcare app	Patient monitoring app-helps Doctor in tracking patient health & intervention.
16.	K health app	Symptoms checking-helps in analyzing the symptoms concern health and recommends for further actions.
17.	Olive AI	Software developed for Hospital operation optimization -helps in automating tasks, allocation giving efficient healthcare services.
18.	Human DX healthcare app	Diagnostic app- helps healthcare professionals of diverse expertise for collective & accurate diagnosis in giving treatment plan.
19.	Visual DX AI tool	Diagnostic aid- helps the doctors in visualizing the complex diagnostic images for accurate diagnosis.
20.	Qventus AI tool	Operational AI- helps in workflow, optimization of tasks, scheduling giving patient centric experience.
21.	Buoy labs healthcare app	Health guiding tool- helps in giving insights on various health topics & preventive measures.
22.	Ada healthcare app	Healthcare app- helps as a companion in one's health journey giving necessary advice on symptoms, prevention and support.
23.	Nanox app	Medical imaging app- helps in diagnosis & imaging in cost-effective & accessible globally.
24.	H1 healthcare professional app	Networking app- helps healthcare professionals in accessing information, networking for collaborative research in their fields.
25.	Qure AI	Radiology imaging AI technology- helps in giving accurate, timely interpretation of the diagnostic images to healthcare professionals.
26.	Kareo AI app	Medical billing app for healthcare providers- helps in reducing administrative tasks in timely billing generation.

Methodology

A survey conducted by using google forms framed with questions provided with single choice answers to choose from was created and responses collected were discussed in results.

Results & Discussion

In this current approach of study, we tried to understand interests of individuals trying various healthcare mobile apps powered by ArI assisted technology and with their priorities. A questionnaire was developed as survey forms. The data collected from these forms were analyzed and represented into a numerical data with pictorial graphs in understanding these responses.

All the responses received were categorized according to age group were presented in Figure 1.

For the question, please select the Health-related apps you are familiar and the responses received are as follows for Fitness apps, Medicines apps, Doctor Appointment apps 12.4%, 46.6% and 40.9% respectively given in the Figure 2. For the question, do you wish to have personalized healthcare app where you can ask anything about your health & body whenever you are in doubt to know the severity of the issue the responses received for yes, no and maybe are 69.9%, 9.3% and 20.7%, respectively given in the Figure 3.

For the question on how confident are you in presenting 50%, 75% and 100% of yours or your family members complete health history to doctor when asked, responses received as 22.8%, 34.7% and 42.5% respectively given in Figure 4.

For the question asked, If a personalized healthcare app designed for you what feature would you like to include for Symptoms checking, Prescription, Lab test results, Fitness tracking, Booking doctor appointment and Medicines usage information of 193 responses received were found as 58, 23, 11, 32, 11 and 58 respectively which shows the most

priority feature being symptoms checking & medicine usage information given in Figure 5.

For the question asked for the familiarity of the healthcare apps used the responses received given in fig no.6 and as follows

1.Tata Img	44
2.Ayushman	7
3. Ni-kshay	0
4. ABHA	6
5. Truemeds	7
6. PharmEasy	45
7. MARROW	1
8. Driefcase	1
9. Apollo 247	77
10. Pharमारack	5

All these mobile apps known for its ease of user experience with applications as discussed for the artificial intelligence assisted based developed technology. For the question asked, how frequently you visit for health checkups. The responses received for the doctor visit as

monthly, six months, yearly & only when sick were 7.3%, 14.5%, 8.8%, 69.4% respectively given in the fig no.8. In this criterion of responses received majority of them are unlikely to visit a doctor on regular basis but compulsory visit when found sick.

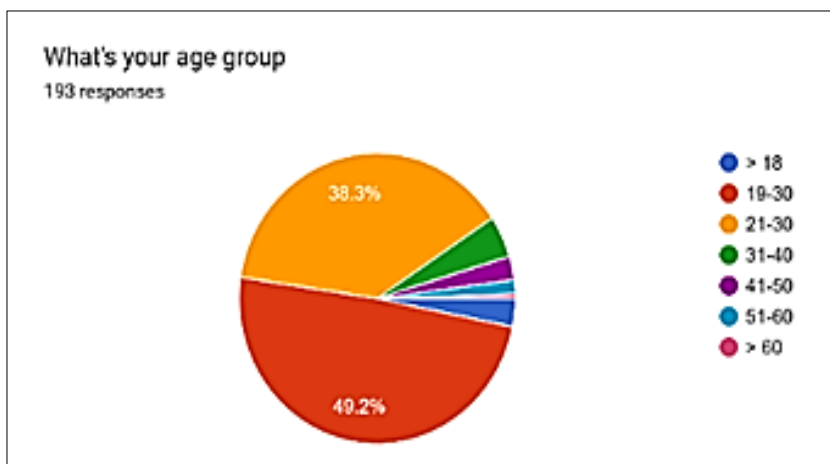


Fig 1: Age group distribution responses

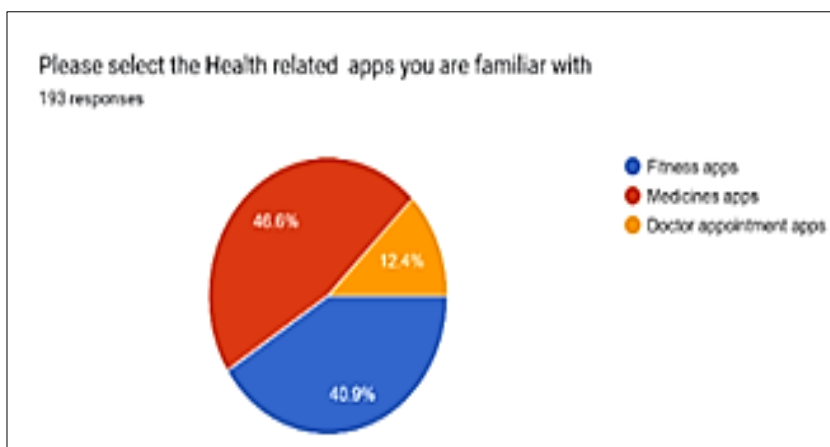


Fig 2: Type of healthcare apps familiarity responses

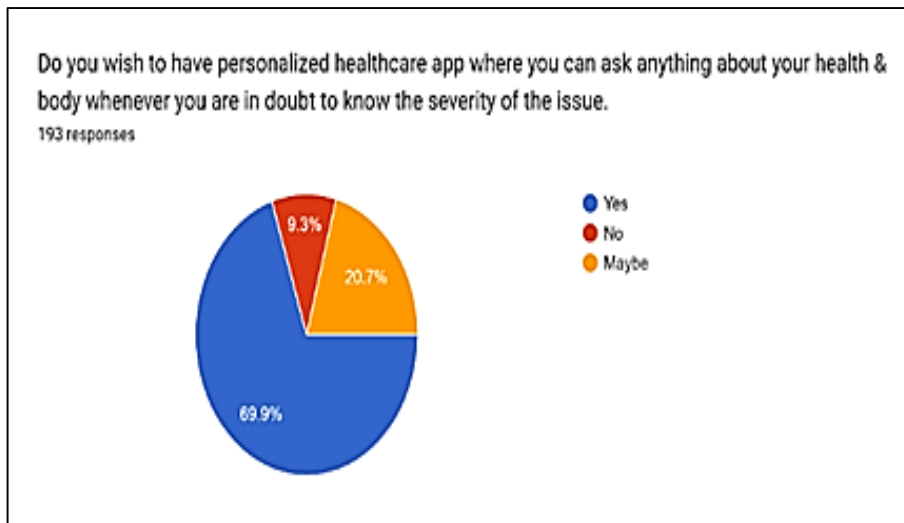


Fig 3: Interest for using healthcare apps responses

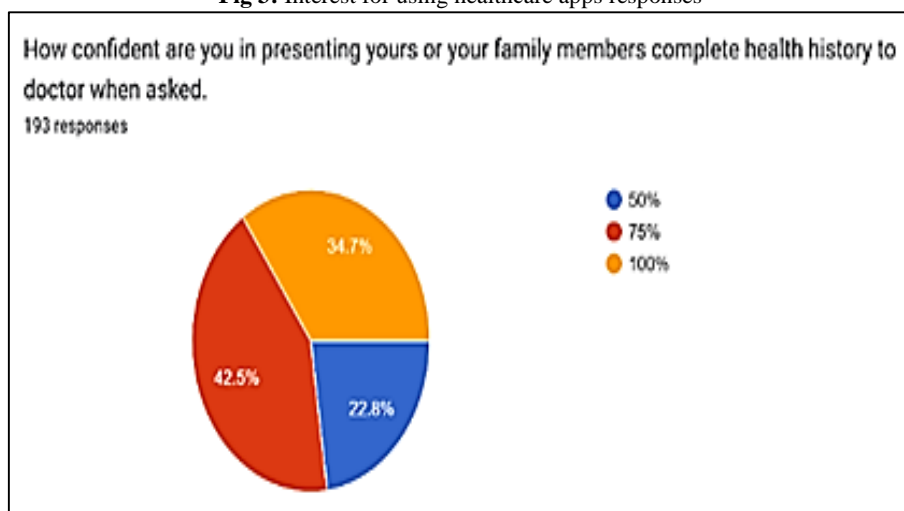


Fig 4: Presenting health history to medico’s responses

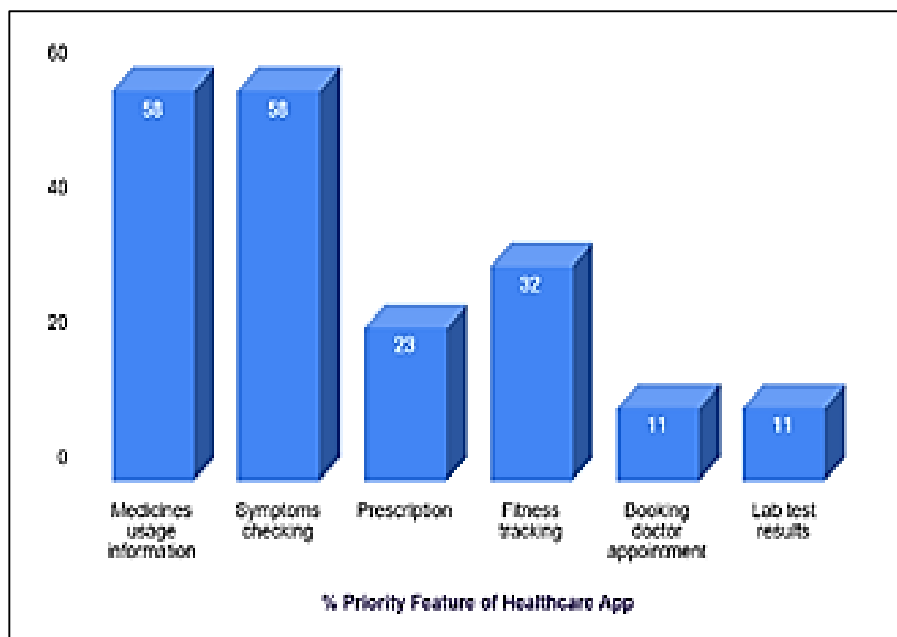


Fig 5: Features interested in healthcare apps responses

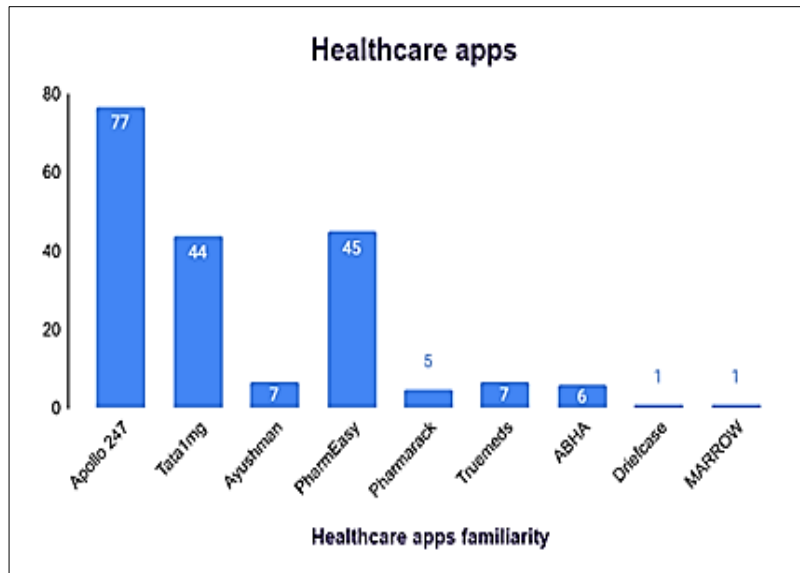


Fig 6: Healthcare app’s familiarity responses

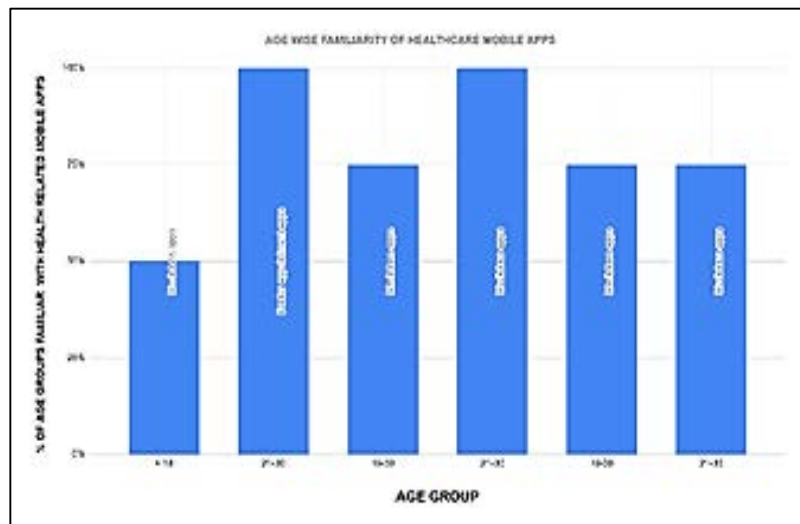


Fig 7: Healthcare app’s familiarity with age group wise responses

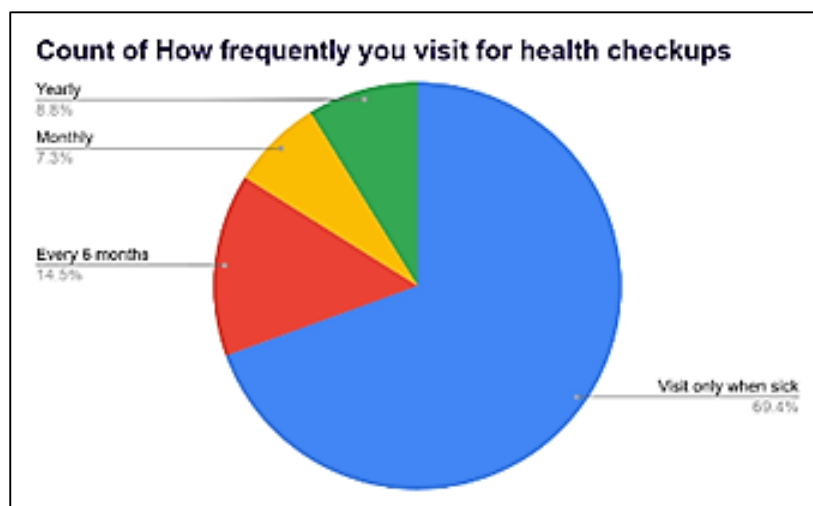


Fig 8: Frequency to visit doctor responses

Conclusion

The overall responses by these representations it was clear that with AR assisted technology developed healthcare apps although they come with price already using by many individuals are even ready to try new if both suggested &

recommended by healthcare professionals to monitor their health & recording daily lifestyle saving time in updating and predicting them of any abnormality, timely checkups and keeping track of their health.

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