

# The Internet of Things and Benefits at a Glance

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**Abstract-** The advent of the internet has provided opportunities for a number of different positive things. This hyperbolic establishment of "Internet" allows businesses the possibility to keep in touch via live conversations, instant texting, emails, live visual discussions, human health observing and a big impact of modern education system simultaneously with all possibilities. The cellular industries are envisioning increasing wireless data for the next generation to meet traffic demands and consumer needs. In this regards, the internet of Things (IoTs) offer a platform to connect thousands of devices with a wireless network. The adoption of IoTs is more pervasive and significant feature towards future advancements. Thus, it has made it feasible for everyone even though cooperative organizations to do some of their jobs remotely, rather than that, large entities that used to rely on expensive phone calls and mail deliveries can now communicate easily for a fraction of the price, which makes it harder to imagine human life and our planet without the internet. The promising IoTs approach has provided interaction among advanced devices and plays an important role in the next generation of medical and industrial research fields. From this perspective, we examine prominent functions and steeply carried out the positiveness and disadvantages of internet and connected devices.

**Keywords-** *Internet Benefits, Internet of Things (IoTs), Wireless Communication*

## I. INTRODUCTION

The Internet has changed the way of communication and unfolded new vistas of research in different ways. It has also changed the way of business, the manner of human personal and social lives. The internet channel provides the facility to text, talk, emails and stay connected instantly all over the world. In fact, the possible need to know and visit any particular place, to understand the phenomenal liveliness of the most complex and critical systems such as underwater and about our earth. The internet the only way to extracting information of our virtual world. In terms of the education sector, it has also improved significantly because of the possibility to acquire a high degree in computer and internet world through distance education mode of internet. The

medium of communication wirelessly, required internet productive devices generally called as the internet of things (IoTs). These things enable a communication bridge between transmitter (source) and receiver (destination). IoTs are also being more advanced communication technique to comprising every day of living things such as business equipment, home appliances, and medical care instruments [1].

Instead of the positiveness, the digital mode of communication has produced various complications, which are growing up as developing internet technological advances. An immeasurable drawbacks and benefits of internet communication depends on the sort of work. Such as, social networking websites are the platform where personal information could be suspiciously stolen by hackers. Thus, a big question mark about communication through the internet that is superior to use or harmful to make a part of our daily lives [2].

The evolution of internet devices changed humans' living standard due to the availability of the internet. As a matter fact, the youth spend most of the time over the Internet and using it on different platforms. This means a great impact of internet addictiveness and reliance on lives. Although it may seem obvious, although we are able to mark an answer that "why do people use the internet"? In this paper, we are going through a discussion of why the IoTs having become beneficial and why do people want to turn on the internet continuously. In addition, what are the symptoms of internet addiction?

### A. Paper structure

Our main objective is to provide an overview about the internet thing's benefits and impacts on daily lives. Thus, the major role of internet applications and its uses are discussed in section II. The language preferences and uploaded materialistic contents are widely discussed in section III. The maximum preferable configured internet content by the audience and its denial are summed up in section IV. The influences of the internet in terms of positive impacts and disadvantages are generally discussed in section V and VI. An advance of next-generation internet (5G) raise to activity on the internet is discussing in section VII. Finally, we summarize all the information about the internet as a useful tool.

## II. INTERNET APPLICATIONS

### 1) *A Source of Digital Information:*

A big impact of the internet revolution on human lives, which is the major invention for humankind ever invented. Thus, advantageous popularity of internet operated devices is increasing day to day. Although accessing these facilities can be taken into an account, the Internet is a modern source of information, where the information delivers through a multiple media platform in terms of different file extensions. Such as visual graphics, images, videos, and audios. Moreover, it has been changed the way to search and productive information [3].

### 2) *Internet as a communication tool:*

A common way of communication through internet has become greater acceptance and preferably at the beginning of the 21st century. The specific software tools presented its possible mode of streaming audio and video conferencing with minimal delay. Text messaging, scripts and emails have become the main means of communication among business partners and dealing purposes [4]. Due to the unavailability of the Internet, it could be expensive and time delaying for maintaining personal and professional relationships.

### 3) *Internet the platform of entertainment:*

Internet using as a tool of entertainment that has been used by youth mostly, and an immensely exponentially improved in the beginning of the 21st century. The majority of the young generation used to enjoy the internet as entertainment tool by themselves and to involve in such personal activities. Recently, the virtual gaming world has an impressive improvement. On the other side, video games and music are easy to find and download over the internet by the high rating of teenagers and adults [5]. Hence, a growing interest in internet addiction over the last few decades.

### 4) *Internet as a working platform*

The Internet provides the most suitable and convenient working environment for those who can work remotely and deal with telecommunication sector. Such as business process outsourcing (BPOs) and knowledge process outsourcing (KPOs) allows a growing number of people are establishing lives from the Internet platform to further working tool.

### 5) *Internet an educational materialistic source:*

At present, most of the primary, secondary educational organizations, societies, schools, and private institutions are implementing internet as a booster that improves the quality of education. To find the new effective study materials, the medium of instruction, methodologies, and strategies of delivering a lesson in different languages, which has been upgraded by the presence of the internet [6]. The high demand for educational quality and curriculum through the internet is increasing over day-to-day [7].

### 6) *Social media based on the internet:*

Internet become the platform to stay connected with people with using different software tools, social media platform and mobile applications that use to find, maintain and end relationships. Even though, people can addict to social networks, too. An arising question here that how to know if

someone is an internet addict [8]. Actually, everyone wants to expose to his quality and enthusiastic information over the Internet. In accordance with the people are able to express themselves politically, artistically, vocally, socially, educationally and give a voice to what is important to them. The Internet is the ultimate forum where the audience can discuss and monologue as needed like.

### 7) *E-resources of Marketing:*

E-business has become a business revolution to sell and purchase of goods. Nowadays, the new generation is using the Internet as marketing and E-business to sell, purchase consumers' products where all features and details of goods are available along with product reliability to choose items according to the budget [9]. Moreover, the Internet platform has become the best e-source of sell and purchase merchandise, online for 24 hours a week from different cities, regions even from different countries. This is also possible to allow selling and purchasing the used materials.

### 8) *Instantly problematic solution for help throughout the Internet*

The protocol for Internet use is one of private consumption without the need for identification. By virtue of the privacy and anonymity factor of cyberspace, some people use the Internet to ask for help and solutions. People ask for help in the form of emotional support, medical advice, education-related or even simply listening.

## III. INTERNET OF THINGS (IOTS)

A massive growth of data consuming smart-devices such as smart-phones, home appliance, smart-homes and wearable devices which enhanced applications functionality and higher spectral efficiency of 4G system [10]. IoTs is an emerging technique, that characterized to the modern era with very compact and user handy devices over limited storage and functionality. It involves reliability, performances, security, and privacy are the main concern. IoTs refer to an addressable protocol and collaboratively interconnection among devices network. These are based on intelligent and self-configuring devices, which connected with the global network infrastructure [11]. The strategy behind implementing these devices to monitoring and understand the phenomena of the modified environment with respecting of time. The internet of things have unique influences in assisted lives and domestic scenarios towards next generation perspectives [12]. The most of IoTs are initiative in healthcare, smart transportation, and wearable devices all around, the improvement of healthcare with remotely and tele-monitoring as main application. This is possible on the level of medical and non-medical devices also level of people and their healthcare assets. The Internet of things and their applications widely used in the monitoring, tracking, maintenance spectrum. Some will start with tracking anything from medical equipment and patients to hospital building assets and beds, others will move to the next stages.

The IoTs play an important role and its assets in human assisted life. The integration of IoT in medical care called the internet of health things (IoHTs) [13]. The internet of health

care equipment (IoHTs), some of wearable devices are more useful to provide the real data related to health and directly connect with the corresponding doctor or specialist, also show the particular need to cure of the patient. The IoHTs provide the solution of diseases prevention and the causes that need to be treated. The most important consequences are also expected for business purposes such as industrial automation and transportation. It can be used as IoHTs and think that it will be useful in favoring and assisting life, maybe in the future there will be more reliable and well-equipped medical devices with more facilities. The benefits and demerits are describing as an important aspect affiliated to IoTs [14].

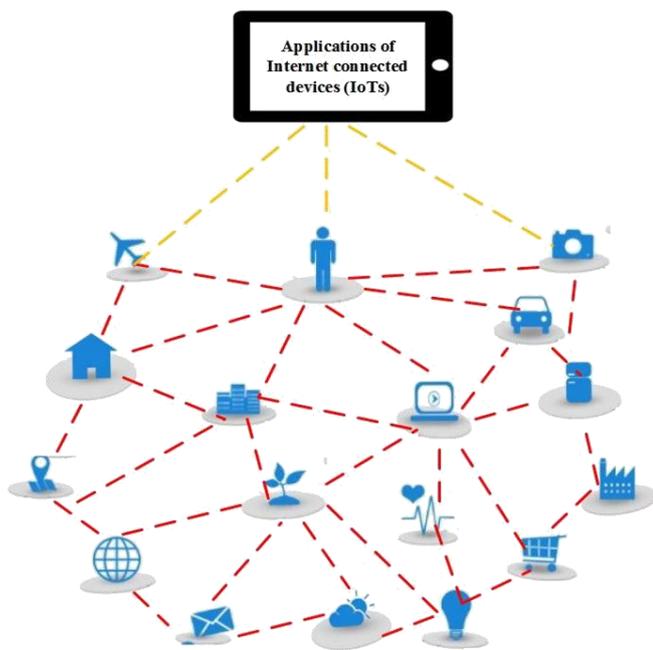


Figure 1. An overview of internet-connected devices' applications

#### IV. ADVANTAGES OF THE INTERNET AS A SERVICE PROVIDER

##### A. Makes communication fast and easier

In the modern era of digital networking, doing business via phone or e-mails are satisfactorily way. In existence of internet there is an immense revolution in human history, For instance, the way of communication some few decades back was through the mail or the telephone. In the presence of the internet, staff and team managers can connect instantaneously without leaving their workplace. The vast investigation of internet things, applications and social networking platforms, internet communication providers has become a paradigm problematic solution. The contribution of these applications' platform, participants can communicate as if they were right next to one another with highly featured quality video and audio conferencing. The service provider and internet tools inbuilt a large number of features with screen sharing, cross-platform chat, innovative whiteboard, etc, [15].

##### B. Up-to-date News and Advertisement

There is an immense growth online user to get the latest updates through specific apps and web-portals all over the world over the internet rather than newspapers and magazines. The internet plays an ample role and is a source of advertisement of any product all around that full-fill consumer needs. The products can be presented with their features, cost, applications and their use through the internet as a medium to attract customers to appreciate the items [16].

##### C. Consuming Time and Speed

Communication based, the Internet is a time and money saving that provides an opportunity to keep in touch and transfer information all around more quickly and in very cheap. The most efficient and faster approach of contacting with a business partner, relative or even friend. It has also provided video conferencing communication through social media platforms, websites and video conferencing applications.

##### D. Seeking and creating jobs opportunities

One of the major evolution advantage of the internet is a new and exciting jobs creation on a single platform to circulate where a vacancy announced by an employer. Thus, it is easy to seek an opportunity by job seekers according to their profession on the same pronounced web portal instantly. The various types of jobs created such as system analysts, computer programmers, web designers, hardware and software developers and many other new opportunities created by information communication technology (ICT) itself. Information communication technology has made it easier for businesses to be automated allowing customers to contact them 24/7. This means that a company can be opened anywhere, anytime, allowing clients to make purchases from different countries. This makes business easier and more convenient. As an example, the use of Skype has helped many businesses work together instant and simultaneously. Companies using Skype are able to share and access large files immediately, get updates in real time, and ensure every staff participation no matter where they are or at what time.

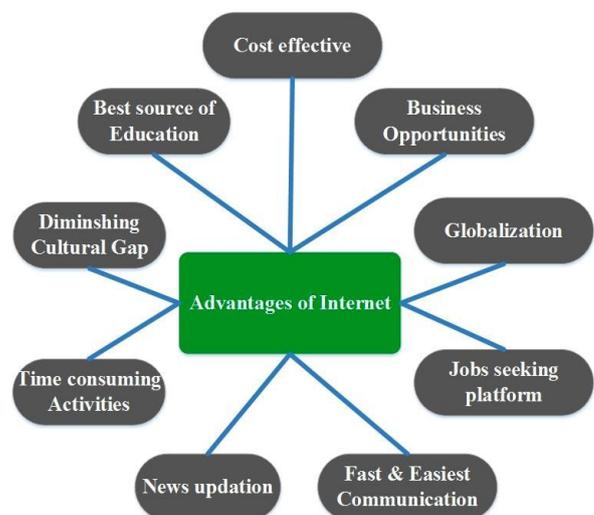


Figure 2. The more common advantages of internet

### E. Globalization all around and eliminating the cultural gap

The internet has indeed brought people closer and helped in economic growth. It has also brought down geographical and language boundaries. The universe has become a global village due to information technology, permitting countries such as Japan who is separated by language and distance, share information technologies and ideas with one another. The internet has filled the cultural gap and serves to unite distinct cultures. People from different nations are able to keep in touch and apprehend to know the cultures. It made easy to communicate each other without an identity, also allows the exchange of ideas and views through the internet.

### F. Cost-effective

The internet facilities and cost of digital communication is significantly low, it is more convenient and inexpensive to e-mail delivery to another country than telephonic conversation. The systematic business support practices to cost reduction in the presence of Internet media. It serves a connection among to fellows, business partners, colleagues, clients and suppliers from just about any location for a fraction of the cost required to host a one-on-one meeting, and as technology continues to become more efficient. The cost of online communication continues to drop significantly [17]. It is possible through Internet the traditional face-to-face meeting, spending spare of time, cash to travel and allows connecting without having to leave destination.

### G. Improve the education sector

The internet has made it possible for numerous computer programs, teaching methodologies, digital libraries to be shared with different generations in different regions of the world. Important information on health, business, research education, and environment facts are easily available to any person with an internet connection. Hence, its support to improve the educational sector widely [6] [7] [18].

## V. DISADVANTAGES OF INTERNET

### A. An issue of unemployment

An impressive and grateful achievement of adopting internet in human lives, even though it has improved many sectors, it also resulted in job unemployment through outsourcing, downsizing, and redundancies. As an example, a factory can replace skilled personnel with robots, which can work faster, and for longer hours.

### B. Privacy concern over the internet

Despite the presence of the internet had enhanced easier communication, quicker and convenient, privacy problems have emerged. From email hacking to phone signal interceptions, more and more people are now troubled about their private information [8].

### C. Lack of job security

Since technology keeps on changing, job security has become a problem. This means that IT experts need to be continuously learning to keep up with the changes if they want to retain their jobs.



Figure 3. The more general disadvantages of internet

### D. Overruling cultures

While the internet has made the universe a global village, some cultures have consumed by majorities and others. For instance, teenagers in western countries have influenced with the most teenagers in other parts of the world on how they dress, act, behave and life standard.

### E. Pornography

Although it may surprise, it's no secret that a real majority of search is centered on porn. So, people especially men use the Internet to view pornography and to engage their sexual instinct. A huge materialistic data searched by people day-by-day over the internet and the graph of pornography exponentially rising up.

## VI. INTERNET IN THE RUSSIAN LANGUAGE

More than seven thousand languages are spoken all around the world. Chinese, Spanish, English are the most widely spoken languages over the internet according to the number of people and region. Despite the most popular and high placing of English, approximately 75 percent of the world population does not speak English as well, so it might seem surprising. Instead of the earth's largest occupied area by Russia and its continentals where the Russian is official language and widely spoken by 267 million people. According to a survey, 2.3 percent of the global population used to speak Russian. Thus, internet users are widely been on the internet and the strength of users steeply hike during last decade [16] [19].

### 1) A vitality language:

The Russian being so dominant online for a large landscape that could be highly considered as a "conventional common language" (CCL). Unlike, other foreign languages such as Chinese, Japanese and Korean are relatively less spoken outside their homeland. In the largest country Russia, the Russian language has become a common language in business and scientific research fields. This means it gives the natural advantage of being online and helps account for its widespread use. The Russian language has an enormous amount of expressions that could not find in English literature. By

knowing the Russian language improves employment opportunities and a big part of Russian culture may be discovered through its literature and language. The number of percentage internet users in Russia is increasing until 2019 by Fig.4.

2) *Availability data on webs:*

The amount of content online is impressively increased as time goes on. The blissful variety of web content into other languages has also increased. A few decades back, a small number of Russians were online but nowadays more than 61 percent of the Russian population (approximately 143.5 million people) have access to the internet. According to Fig.5, a comparison of online users, countries such as Spain and China also showed an improvement to have high levels of internet access and more than 85 percent of their country population being online. Thus, a massive amount of web content they both produced. As a review, that the number of Spanish speakers online is rapidly growing where more than 8 percent of the audience still to go online globally, there will be plenty more content that is Spanish in the future.

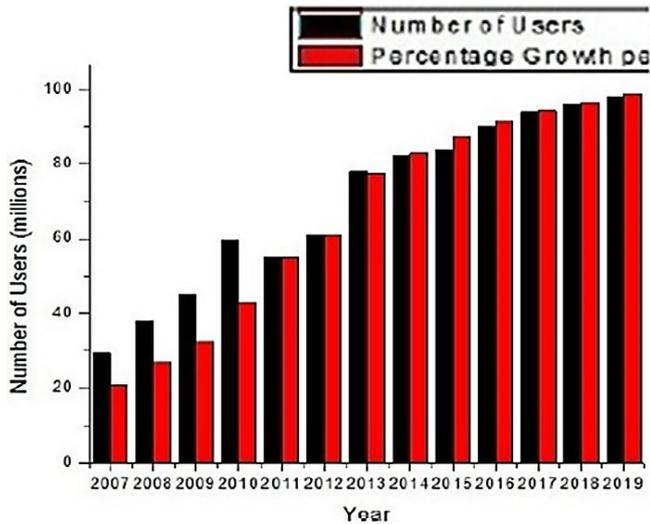


Figure 4. Participation of internet users globally until 2018. Analyzing data has been taken from "Internet World Stats"

3) *Establishing own language:*

The Russian language accounts for 2.8 percent of internet users globally that has grown considerably with 109 million users online until 2018. This happens gatherings of users are using it to access content on the internet, which is on increase mode. The fact that people prefer to access the internet or browsing data online in their native language in terms of discussing issues sharing with fellows and likely favor to deals in their own language. i.e if continuously to upload things and create own web contents, the number of web users online will keep growing. In Fig. 6, it seems the percentage of people globally in Russia only 2.6 percent on language preferences.

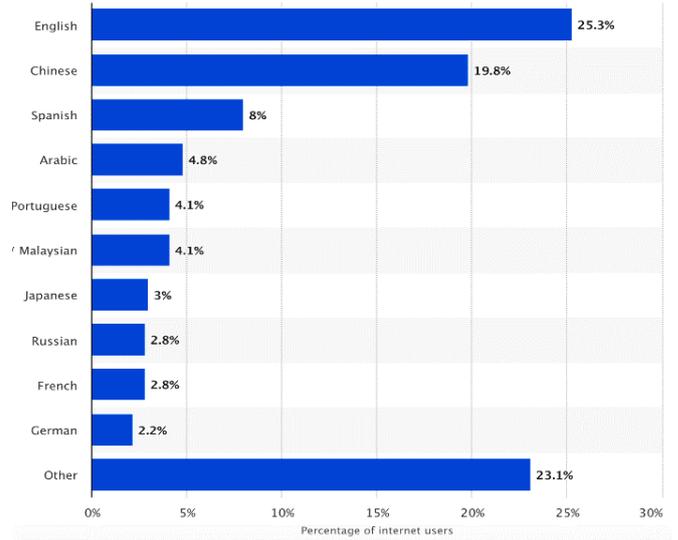


Figure 5. Participation of internet users globally until 2018. Analyzing data has been taken from "Internet World Stats"

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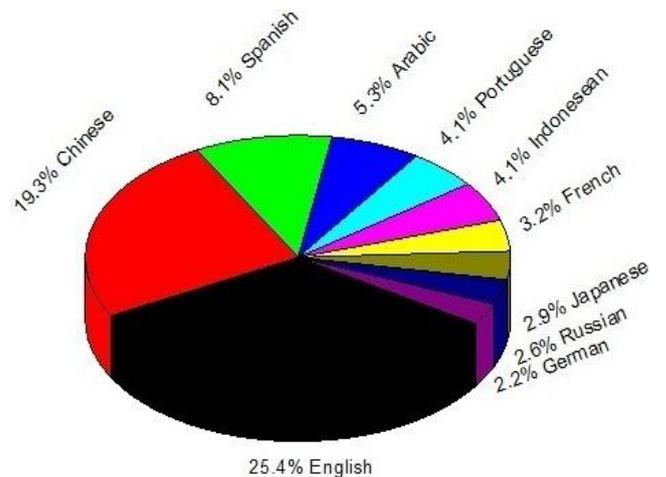


Figure 6. Contribution of Internet users according to language preference. Analyzing data has been taken from "ITU"

### 5) *Share a thought:*

The fact that in Russia, the Russian is the most common language to choose to share thoughts with a large audience over the internet. Learning Russian could help to engage in conversation with more people effectively online while also giving an access to a much wider choice of content.

## VII. DECLINATION OF THE INTERNET IN THE RUSSIAN LANGUAGE

### 1) *Language preference:*

Russia and the group of USSR countries heavily favor Russian language websites that cater to their needs i.e most similar for Russia "VKontakte", "OK (Odnoklassniki)" in replacing of "Facebook" and "Yandex" search engine instead of "Google". They are not much familiar to use English websites instead of the Russian language, by the reason of because their local language and internet content available in Russian which is sufficient for their needs and catchier among others. Thus, they prepare to access the internet in their mother tongue.

### 2) *Lack of shared language:*

Most of the non-English speaking countries all around the world like in Europe, Latin America, Africa, and India accessing the English version of the websites and material over the internet. For instance, Latin America was colonized mostly by Spain, Africa was colonized by France and the British Empires colonized India a century back. As a result, the population of Latin America speaks Spanish, Africans speak French and Indians adopted English for communication and browsing data over the internet. Therefore, they all do not speak English, but they are still using western European languages like Spanish, French, and English. Eventually, China, Korea, Japan as a majority of internet users, these countries less prefer to use any European language to explore the internet. On spreading languages in India, Singapore and Hong-Kong have made English as an official working medium of instruction. Thus, majority of people in the relevant countries are more active on English language websites than other countries. Russian is less spreading language globally as compare to English, Spanish and French but successfully covers the USSR countries.

## VIII. CONCLUSION

Internet as a service provider has definitely made human life better; it also has the power to cause mayhem. Its impact on a society or a company is mostly felt by the choices that makes while using it. Nevertheless, with wise use, it can be able to reap the benefits, and avoid many of its disadvantages. While the internet offers a host of benefits, choosing a platform that offers an extensive range of quality internet communication services is key to success. There are many internet communication providers out there, making it difficult to choose the right one. The key is choosing a communication platform that comes equipped with the features that will meet to business's needs.

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