

## Use of Language in Information Technology

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### Abstract

From the last decade, we have witnessed many significant advancements in information communication technology. Which have not only changed our modern world but become integral part of modern life. Like any other aspect of IT the usage of languages has also been transformed by ICT. This paper focuses on a way of development of languages and its role and place in information technology development. Importance of usage of languages and the advantages it gives are analysed.

**KEYWORDS:** ICT, Language, Internet, Learning

#### **Internet and Intranet:**

The **Internet**, sometimes called simply "the Net," is a worldwide system of computer networks -- a network of networks in which users at any one computer can, if they have permission, get information from any other computer (and sometimes talk directly to users at other computers). The Internet carries many network services, most prominently the World Wide Web, including social media, electronic mail, mobile applications, multiplayer online games, Internet telephony, file sharing, and streaming media services. Intranet is also a network of computers designed for a specific group of users. ... Therefore the Internet is an open, public space, while an intranet is designed to be a private space. An intranet may be accessible from the Internet, but it is protected by a password and accessible only to authorized users.

**Information and communications technology (ICT):** is an extensional term for Information Technology (IT) that stresses the role of unified communications and the integration of telecommunications and computers, as well as necessary enterprise software, middleware, storage, and audiovisual systems, that enable users to access, store, transmit, and manipulate information. ICT is a broad subject and the concepts are evolving.<sup>[3]</sup> It covers any product that will store, retrieve, manipulate, transmit, or receive information electronically in a digital form (e.g., personal computers, digital television, email, or robots).<sup>(1)</sup>

#### **Introduction,**

Language is the medium which is vitally used in the field of Information Technology (IT). Since ages languages are existing in different parts of the world. Information Technology too has evolved in last few decades. Initially English language was used as a medium in writing computer programs. As Information Technology is digital in its basic form, few commands were adopted from English language.

Later on, with the help of research and more utilisation of languages in its various forms were done. Sanskrit the ancient Indian language is considered as a perfect match to use

it in development of Information Technology. Sanskrit's core strength lies in addressing one major challenge in Information Technology is resolving "ambiguity".

### **Importance:**

In the recent years, Artificial Intelligence and Transliteration are contributing to expand the use of Information Technology in almost all the languages throughout the world. Commercial products from big MNC ICT companies like ALEXA, communicate with humans is a self-learning machine. Even online language translation tools and services offered by many companies are apt to point here. For example, a Kannada speaking person when in Japan can use the services of language translation and still effectively communicate with a Japanese individual. All this is possible due to the contribution of the language experts who work in co-ordination with the Information Communication Technology (ICT) companies. ICT has moved far ahead from using keyboard, only English language to voice based systems, augmentation based systems and what not.

Artificial intelligence, machine learning and cloud computing together will drive the future of inclusive use of all ancient languages across the world. There are enormous opportunities for the language experts to work in the field of ICT.

During the recently concluded general elections there were many instances which had innovative use of language and ICT. A politician can deliver election campaign speech by using virtual reality in multiple languages across the country. There are many events of natural disasters happening across the globe. Sometimes we see that complete habitats are washed out. These disasters will destroy not only the people residing there but also their ethnic languages, knowledge and much other intangible information accumulated over the years. The leaders, contributors in the field of developing literary works have enormous responsibilities on their shoulders. The challenge is to do extensive research in collecting proper information and make it available in digital formats, thereby which leads to the use of ICT tools in spreading the knowledge across the globe.

We have moved far ahead in terms of ICT development. Due to the heavy research happening in the field of Information and Communication Technology development segments like, AI[Artificial Intelligence], VR[Virtual Reality], AR[Augmented Reality], ML[Machine Learning], there is enormous scope of language specialists to take the challenges head on.

India being the ancient country and having multiple dialects and twenty two regional languages and a vast repository of Vedas and Upanishads, language mastery compelled with strengths in Information and Communication Technology, we could surge well ahead in the field of innovations, research and development.

'Atharvana Veda' which specially contains the activities and methods in learning subjects like Physics, Chemistry, Biology and Mathematics are in abundance and were only available in the form of 'shlokas'. Most of the patent holders at the global level are directly or indirectly influenced by the knowledge which was available in Sanskrit. 'Germany' is the best example for using language and ICT and has been the pioneer in the research development.

Earlier ICT was in the forefront and language used to be a subordinate in its usage, but now languages are taking the lead and ICT is just an enabler. This may look surprising for most of us but that is the way future will look like. Any individual, organisation involved in any kind of research, discovery, creating knowledge based need not bother which dialect or language he/she is basically strong. He can make use of ICT and make it available for public domain with the use of ICT tools and technologies. This is a marvellous boon for the mankind.

### **Conclusion:**

With the affective and proper use of the ICT and language, India will definitely surge ahead in the world. There is an ample scope for professionals who have the skills of using ICT as tool and language as their strength to communicate. Our ancestor's knowledge base in local language could be the base for future generations' problem solvers using ICT.

Whatever subject the teachers are lending their sources to the education arena, they have very huge responsibility on their shoulders, and the only way to represent it is through a media. Language is the only way to attain the goals set forth. Proper use of language will not only shape the students future in right perspective but also instigates them to come up with new ideas and strategies.

Language is just perceived to be taught and learnt in schools, but even an illiterate has a peculiar style of speaking and writing, here comes the role of teachers in putting the content in the right perspective. The teachers involved in such professions have huge responsibilities as the same will be carried forward in digital format, immaterial of the language, the dialect, and the grammar. What matters is the learning outcome which will benefit the mass.

Never, ever in the history of any civilisation, growth and development has happened only because of untraditional ways and challenges posed by students to their teachers. A teacher is incomplete without students who ask and challenge to resolve doubts in their local language. Teacher here can make use of technology such as social media and clarify the doubts of their students in their local language.

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