A Survey on Vastu Shastra, AR and IoT

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Abstract: **The main aim of this paper is to understand the new emerging technologies like AR (Augmented Reality) and IoT (Internet of Things), also to know the importance of Vastu Shastra in a person's life. As we all know new technologies are coming and old technologies are advancing day by day. With every new day there is a new concept invented in that particular field. Also, with emerging technologies like AR which is not totally developed yet a high research is going on it. IoT is a technology because of which human life has become much easier. Coming to Vastu Shastra, it can be said as a "Science of Architecture" due to which the development of any structure got some rules so as to give a touch of tradition. In this paper, we will look how these technologies play an important role in human life.**

Keywords: **Augmented Reality (AR), IoT (Internet of Things), Vastu Shastra.**

1. Introduction

In recent years, there has been boon in the field of IoT (Internet of Things). Every other day a new IoT device is launched in market, this makes the competition harder for other people. With help of IoT devices and applications built with their help people's life have become easier and more comfortable. Considering price issue, IoT devices are cheap enough due to which people willingly buy them. Also seeing day by day advancements in this field people are interested in using new IoT devices having more and more functionalities. IoT has given people many things which were not even imagined by anyone a decade or two ago. IoT has made possible that a person can sleep nicely because of Home Intrusion Detection System, also IoT has made possible that a person need not do the whole task he can be dependent on Machines for his few tasks with which the work can be done more precisely and more accurately, likewise many other usage of IoT can be seen. Talking about the applications of IoT those are [1], [2]:

- Agriculture
- Military
- Healthcare
- Industrial
- Education
- Transportation, etc.

Considering Augmented Reality, it is augmentation of objects that resides in the real-world, it brings components of digital world into a person's perception of the real world. The representation of environment is done with hardware components like processor, display, sensor and input devices. There are various AR devices that are available in the market like Contact lenses, Virtual retinal display, Eye Tap, Handheld, etc. In recent years' various mobile devices are having inbuilt AR core. AR is also used in the field of architecture with which it is possible to place objects in virtual environment and to check its placement with respect to real world. Many applications are available with which we can use augmented reality easily. The fields in which AR is used are [3]:

- Military
- Medical
- Gaming
- Navigation
- Architecture
- Education
- Mobile Applications, etc.

Talking about Vastu Shastra, it is an old terminology which is a part of belief. People do believe in Vastu Shastra even in today's world. Taking about its existence, no exact date is found but it is said it exists from 6th Century CE/AD [4]. Vastu Shastra gives us such rules which helps to build the structure using geometric patterns (yantra), symmetry and directional alignments. Vastu shastra rules are used for a house or an open plot. The Vastu Shastra rules do have scientific reasons due to which people believe it even in today's world [5].

2. Literature survey.

According to a retail portal [6], a study was conducted across eight major cities. The study revealed that about 93 per cent of people wish to have homes that are based on Vastu Shastra. The percentage was so high that four out of five people preferred to know the Vastu of property, even before actually seeing the property. The survey was carried out in Mumbai, Delhi, Jaipur, Kolkata, Patna, Ahmedabad, Chennai and Bengaluru. The study also revealed that nearly 33 per cent of buyers consider the directions as an important aspect in buying the property. The highest priority is given to the entrance of the property followed by kitchen, bathroom, puja room and then the set-up, arrangement and sizes of room. It was further found that, if needed people can even make adjustments in the design of house to make it a complete Vastu based house.

Similarly, the study stated that South has the maximum number of believers in Vastu Shastra, after which comes north, east and then west. South cities like Chennai and Bengaluru,

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280

showed high faith in Vastu. Some people were also ready to make changes in houses if they were not completely based on Vastu Shastra. Joint families believe more than nuclear families in Vastu Shastra. Basically, Vastu Shastra is based on belief hence people without doubt adopt it. Also, it is noticed that risk prone people like middle aged people and businessmen tend to believe more in Vastu Shastra. Other than this we all know that Vastu Shastra is not a recent a terminology. It is as old as Vedas or Puranas. The live example of it can be seen in Old buildings and structures. E.g. - Angkor Wat, a Hindu-Buddhist temple built in the 12th Century. It deploys the circles and squares grid architecture as described in ancient Vastu Shastra. Egypt Pyramids are also considered by Vastu Shastra point of view.
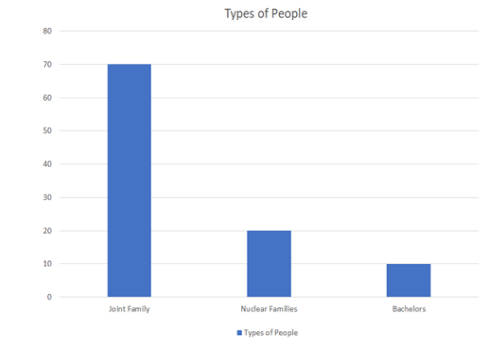

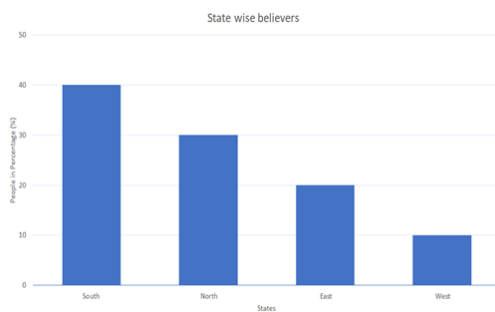Fig. 1. Believers of Vastu Shastra

Fig. 2. State wise believers in Vastu Shastra.

3. Motivation

The main motive of this survey was to create awareness of the technologies. Also, how these technologies have advanced and in which fields they are evolving. To encourage and spread knowledge about Vastu Shastra is the most important motive of our survey.

4. Conclusion

The technologies like AR gives us fantastic experience and IoT have made life much easier. Vastu Shastra is also a field in which more work and research should be done to encourage more and more people to believe in it and use the Vastu Shastra rules for a better life. These three concepts must be emerged together so as to develop such a system that will be beneficial to mankind.

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