# IoT Deployment & Security Aspects

**– Nitin Garg**
AGM (IT), ALTTC, Ghaziabad
https://orcid.org/0000-0002-8943-9225    mail.garg77@gmail.com

IoT Internet Of Things ,everybody aware about these three words as this enters in the life of every human beings now things as of now what type of things we can expect it may be a Energised oe non energised that means everything should be able to communicate anything or anything shoud be able to communicate everything.IoT as at present is not limited to word or technology in air,its aprt of life,making life easiest in every means for everyone.as compare to next generation netork communication model  that requires real time communication in IoT  we require Real time decisitioning to.That why to make IoT ecosystem secure is alittle bit more and more challengeat a time.

**Keywords:** IoT  |  AI  |  Cyber Security

## Introduction

IoT is a ecosytem related intercommunication of Computing Devices ,Digital Machines,Objects that are provided with unique Identifiers with ability to communicate over entire data network without Human to Human Or Machine To Human To computer Interaction.In IoT Internet meant which internet i mean to say at present we are at IoP(Internet of Peoples ) and we are moving towards IoT ,same internet will work for thing also so at present all peoples are connected to web through internet in same web more and more nos of things will also come very soon.

These things require real time in time memory computation we cannot make  more robust arrangement in these types of IoT devices because in this eco sysytem we require real time decisioning.

Actually in Cyber world nothing is safe any thing can happen any time in this world.Cyber world is a virtual world built up on Mutual Trust Model if



any thing goes wrong in intention any thing mischievous can be happened, we canot make our system Hundred percent safe,to make it hundred percent safe we need to built up  a model of Zero Trust.That is not possible in todays scenario because now a days AI an IoT comes togather in full existence.IoT is no more IoT its an AIoT(Artificial Intelligence Over Internet of Things).Its time of machine learning that learns a previous patters and possibility of Fraud detection from previous patters by combining analysing a big data available

## Artificial Intelligence in IoT/ Cyber Security

As the Advanced threat landscape regularly expanding,Introduction of Artificial intelligence (AI) in a security strategy has become pioneer to establishing  and maintaining an effective security mechanism.  Today security teams need the assistance of machine learning and other AI-based capabilities in order to detect, secure, and mitigate Advanced attacks.

We can observe   that traditional security mechanism  depends upon

certain antivirus software, firewall and network analysis tools on detecting and preventing cyber security threats. In previous era the regularly updating of software and the Team intention and habits who are responsible for cyber security decides the altitude of security level ,simply human attitude and dependencies are more in these cases. Further updating of Antivirus may itself can be in the form of Cyber Threat.

But in Today's scenario AI is based upon specially made intelligence purpose to trace out almost all possible security threats. Even it can find out beyond the limits of human brain intelligence by providing information on the range of a security breach at any hours.The combination of AI and Machine Learning plays a vital role to find out the Cyber Security Threats and to predict future attacks with probable solutions and what type of Cyber Hygiene Practices can be maintained ie what type of security lapse are there from user ends. Role of Cyber Hygiene can not be ignored in preventing the Cyber Security Threats/Attacks.

**Nitin Garg** working as Astt.General Manager(IT),in Advanced Level Telecom Training Centre,(ALTTC) Ghaziabad. ALTTC Is ITU CoE in IOT, Cyber Security, Wireless Broadband (NGBN).20 years Subject matter expert experience in Next Generation Newtwork. At present working area of interest are IoT/Smart City Deployment,Cyber Hygiene, AI in Cyber Security,Python in Digital World.Latest publish edition is "Digital World of Programming Through Python"

✉ mail.garg77@gmail.com

## Annexure I

| Submission Date | Submission Id | Word Count | Character Count |
|---|---|---|---|
| 12-Sep-2019 | 1177017394 (turnitin) | 687 | 3509 |

ORIGINALITY REPORT

| 3% | 0% | 3% | 0% |
|---|---|---|---|
| SIMILARITY INDEX | INTERNET SOURCES | PUBLICATIONS | STUDENT PAPERS |

PRIMARY SOURCES

**1** S. R. Juhi Reshma, Anitha S. Pillai. "Chapter 59 Impact of Machine Learning and Internet of Things in Agriculture: State of the Art", Springer Science and Business Media LLC, 2018
Publication — 3%

*Note: www.Cybernomics.in Uses a "Turnitin" https://www.turnitin.com which is an American commercial, Internet-based plagiarism detection service, a subsidiary of Advance and also offers plagiarism-detection service for newspaper editors and book and magazine publishers called iThenticate..*

## Reviewers Comment

**Review 1:** The Internet of Things (IoT) is a system of interrelated computing devices, mechanical and digital machines.

**Review 2:** In computer science, artificial intelligence, sometimes called machine intelligence, is intelligence demonstrated by machines.

**Review 3:** This paper will go into some of these themes to provide a better understanding for the field of AI.

## Editorial Excerpt

The article has 3% of plagiarism which is accepted percentage for publication The finding related to this manuscript is vital and into consideration how "**IoT Deployment & Security Aspects**" as the world is moving from IoT to AIOT the importance of artificial intelligence in a security strategy has become vital to establish and maintain an effective security mechanism. The manuscript tries to explain the importance of Artificial intelligence and machine learning in cyber-secuity hence, the article has been earmarked to and finalize to be published under the category of "**Scrutiny tip**"

**Scholastic Seed Inc.**

*www.scholasticseed.in*