

* A Survey on machine Learning in IOT.

(Summary)

~~ML is in IOT and IOT.~~

ML is a concept that is more talked about in the world of computer and AI related fields. It is a modern science of discovering patterns & making predictions from data based on statistics. So IOT helps us to extract useful information from various data source without having to rely on a human. The learning activity is essential for human beings in order to understand various parameters such as voice, a person etc. but for the machines, it is easy to handle a large amount of data but difficult to build good model. In supervised learning we regroup algorithms which lead to the generation of a function that maps input to desired outputs. In unsupervised learning we regroup algorithm which lead to combining both labeled & unlabeled data to generate appropriate function. The large scale deployment of IOTs especially in smart cities environment generate large amount of data. The present ML unable to cope with large amount of dynamic data in real time environment, hence much data is wasted without information. The amount of unlabeled data can be mixed with small amount of labeled data. Statistical results shows that the number of connected devices is expected to reach 50 million. The increase in number of connected device will enhance network coverage but it will also increase size of collected data. Collaboration with IOT brings several advantages such as self organisation, rapid development & processing capacity.