

# **Abstract**

**Internet of Things (IoT) is a platform which gives the computing devices, sensory devices to produce and exchange the data over the network. There are billions of devices connected to the internet and they constantly produce data resulting in production of huge amount of data. The connected devices produces a huge amount of data which are either unused or limited to a specific domain. There are several interesting applications of extracting the higher level information from the raw data and representing it in human readable format. There is an effective mechanism required to process streaming data and inferring the data to get insight about the data and get some actionable information from processing and measurements. The aim of the project is to represent the data from device point of view to user-centric point of view using Data analytics and Machine learning mechanism. So, in this project, raw sensor data is created based on the sensor threshold values. The numerical values are converted to the strings to create higher level abstraction by applying set of rules. Further, the abstracted data is cleaned by some cleaning processes. Then Latent Dirichlet Allocation (LDA) is applied to extract the hidden correlation among the data. LDA is a topic extraction method, used in text analysis.**