

# Research on Data Mining Models for the Internet of Things

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**Abstract:** Data mining is a technique or method which is used to extract datasets from different source and the hidden part of applications. Data mining is also used to make a pattern form a large amount of data by which the data will be more accurate and visible to the user. Data mining is used to enable the user to get a summary view of data according to their research. This paper discusses three data mining model of IOT that how data mining model helps IOT in growing the business and how to improve IOT using data mining technique. The future scope of IOT is discussed.

**Keywords:** Internet of Things, Data mining models, clustering algorithm, automatic identification

## REFERENCES

- [1]. Rohit Yadav, Kapil Arora. "Data mining for the internet of Things: A survey. "Communications surveys & Tutorials, IEEE 16.1(2014):77-97.
- [2]. Azra Shamim, Vimala Balakrishnan, Madiha Kazmi, and Zunaira Sattar, "Intelligent Data Mining in Autonomous Heterogeneous Distributed and Dynamic Data Sources", 2nd International Conference on Innovations in Engineering and Technology (ICCET'2014)
- [3]. Rumi Gosh, Sitaram Asur, "Mining Information from Heterogeneous Sources: A Topic Modeling Approach".
- [4]. Joydeep Ghosh. "A Probabilistic Framework for Mining Distributed Sensory Data under Data Sharing Constraints," First International Workshop on Knowledge Discovery from Sensor Data. 2007.
- [5]. Amir Ahmad, Lipika De, "A clustering algorithm for mixed numeric and categorical data" Data & Knowledge Engineering Elsevier.
- [6]. Gubbi, Jayavardhana, et al. "Internet of Things (IOT): A vision, architectural elements, and future directions." Future Generation.
- [7]. Internet of things definition, available from <[https://en.wikipedia.org/wiki/Internet\\_of\\_things](https://en.wikipedia.org/wiki/Internet_of_things)>.
- [8]. Multi-layer data mining model for IOT available from <[https://www.researchgate.net/figure/Multi-layer-data-mining-model-for-IoT\\_fig2\\_321333161](https://www.researchgate.net/figure/Multi-layer-data-mining-model-for-IoT_fig2_321333161)>
- [9]. Distributed data mining model for IOT available from <<https://www.semanticscholar.org/paper/Research-on-data-mining-models-for-the-internet-of-Bin-Yuan/822535c409890de3aae74b49b2bd8d4a59832fba>>
- [10]. Grid based data mining model for IOT available form <<https://www.semanticscholar.org/paper/Research-on-data-mining-models-for-the-internet-of-Bin-Yuan/822535c409890de3aae74b49b2bd8d4a59832fba>>
- [11]. P. Brezany, I. Janice, and A. M. Tajo. "Grid Miner: a fundamental infrastructure for building intelligent Grid systems," Proc. 2005 IEEE/WIC/ACM International Conference on Web Intelligence (WI'05), IEEE press, 200, pp. 150~156.
- [12]. Jae-Gil Lee, Jiawei Han, Xiaolei Li, Hector Gonzalez: "TraClass: trajectory classification using hierarchical region-based and trajectory-based clustering," PVLDB 1(1): 1081-1094 (2008)
- [13]. "Data mining model for Internet of things" Research by Shen Bin , Liu Yuan , Wang Xiaoyi.
- [14]. "A Research Direction on Data Mining with IOT" Reserch by purvi Prajapati, Jay Patel.