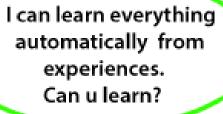
In the real world, we are surrounded by humans who can learn everything from their experiences with their learning capability, and we have computers or machines which work on our instructions. But can a machine also learn from experiences or past data like a human does? So here comes the role of **Machine Learning**.

Machine learning is a growing technology which enables computers to learn automatically from past data.

Machine learning uses various algorithms for building mathematical models and making predictions using historical data or information. Currently, it is being used for various tasks such as image recognition, speech recognition, email filtering, Facebook auto-tagging, recommender system, and many more.

Human

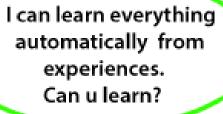


Machine



Yes, I can also learn from past data with the help of Machine learning

Human



Machine

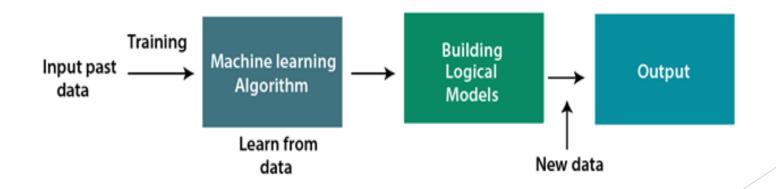


Yes, I can also learn from past data with the help of Machine learning

How does Machine Learning work

A Machine Learning system learns from historical data, builds the prediction models, and whenever it receives new data, predicts the output for it. The accuracy of predicted output depends upon the amount of data, as the huge amount of data helps to build a better model which predicts the output more accurately.

Suppose we have a complex problem, where we need to perform some predictions, so instead of writing a code for it, we just need to feed the data to generic algorithms, and with the help of these algorithms, machine builds the logic as per the data and predict the output. Machine learning has changed our way of thinking about the problem. The below block diagram explains the working of Machine Learning algorithm:



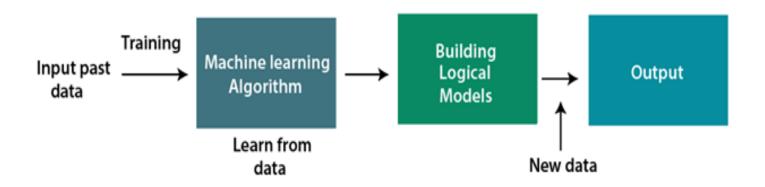
### **Features of Machine Learning:**

- •Machine learning uses data to detect various patterns in a given dataset.
- •It can learn from past data and improve automatically.
- •It is a data-driven technology.
- •Machine learning is much similar to data mining as it also deals with the huge amount of the data.

### **How does Machine Learning work**

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The below block diagram explains the working of Machine Learning algorithm:



# Classification of Machine Learning

