

# Machine Learning

How is programming used in the field of machine learning?

Traditional computer programming is a manual process. A programmer creates the program, but without anyone programming the logic, one has to develop or program the rules manually. However, in machine learning algorithms automatically develop or program the rules from the data that is collected. Machine learning is an automated process.

Types of Machine learning

- Supervised learning
- Unsupervised learning
- Reinforcement learning

Programming language used in Machine learning

- Python Libraries and frameworks :Keras , PyTorch , Pandas, NumPy and Matplotlib
- R Libraries: caret , randomForest , nnet and xgboost
- Java Libraries: Weka, DeepLearning4j and MOA
- C++ Libraries: Delib and SHARK
- Julia Libraries: Spark MLlib
- JavaScript Libraries:TensorFlow.js and Brain.js

Real world problems solved by Machine learning

There are many ways that Machine learning is used in our day to day lives through modern technology.

## Sources

<https://insightsoftware.com/blog/machine-learning-vs-traditional-programming/#:~:text=Traditional%20programming%20is%20a%20manual,the%20rules%20from%20the%20data>

<https://www.tableau.com/learn/articles/machine-learning-examples>

