Machine Learning

- Machine Learning is a study of making a machine to decide the outcomes for one/more problem by using different kind of algorithms and models.
- Machine Learning is a subset of artificial intelligence that enables computer systems to automatically learn and improve based on their experiences without being explicitly programmed.

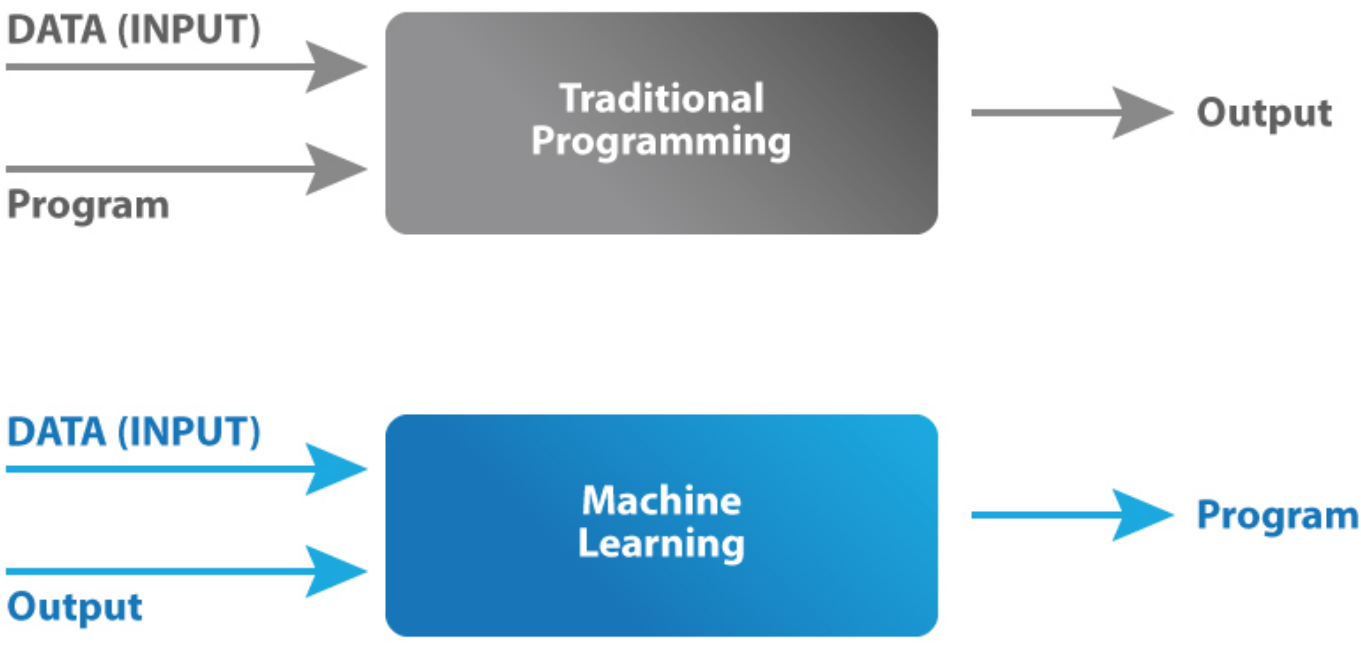
Why Machine Learning ?

- Machine Learning is currently receiving all of the attention it requires.
- Many activities, particularly those that only people can accomplish with their natural intellect, can be automated using machine learning.
- Only machine learning will be able to replicate this intelligence in machines.

MODEL :

A machine learning model, often known as a "hypothesis," is a mathematical description of a real-world process. A machine learning model is created by combining a machine learning algorithm and training data.

HOW DOES MACHINE LEARNING WORKS



- A model is a system that produces predictions.
- The parameters are the elements that the model takes into account while making predictions.
- The learner modifies the parameters and model to align the predictions with the actual outcomes.
- A part of data is passed as input data(test - data) to the model.
- The model finds relationships and patterns in our data .
- Finally, it predicts the outputs.

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Which Language to use ?

- Python is well-known for its readability and lesser complexity when compared to other computer languages.
- Machine Learning applications entail sophisticated concepts like as calculus and linear algebra, which need a significant amount of work and time to execute. Python helps in reducing this burden with quick implementation for the ML engineer to validate an idea.
- Python is a versatile programming language and can run on any platform, including Windows, MacOS, Linux, Unix, and others.
- While migrating from one platform to another, the code needs some minor adaptations and changes, and it is ready to work on the new platform.

Why is machine learning popular and getting trendy ?

- The amount of data available to us is growing all the time.
- Machines utilise this data to learn and enhance the findings and outcomes that we receive.
- These outcomes may be highly beneficial in terms of giving important insights and making educated business decisions. Machine Learning is continually evolving, as are the applications of machine learning.

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