ML Landscape

Machine Learning is the science and art of programming computers to learn from data.

Examples a system uses to learn is called a training set.

Each training example is called a training instance (sample, observation, etc).

Consider the traditional programming approach of creating a spam filter:

Diagram

Description automatically generated

If the spammer changes his emails, you have to write new rules to represent the new, different spam. So we use the machine learning approach:

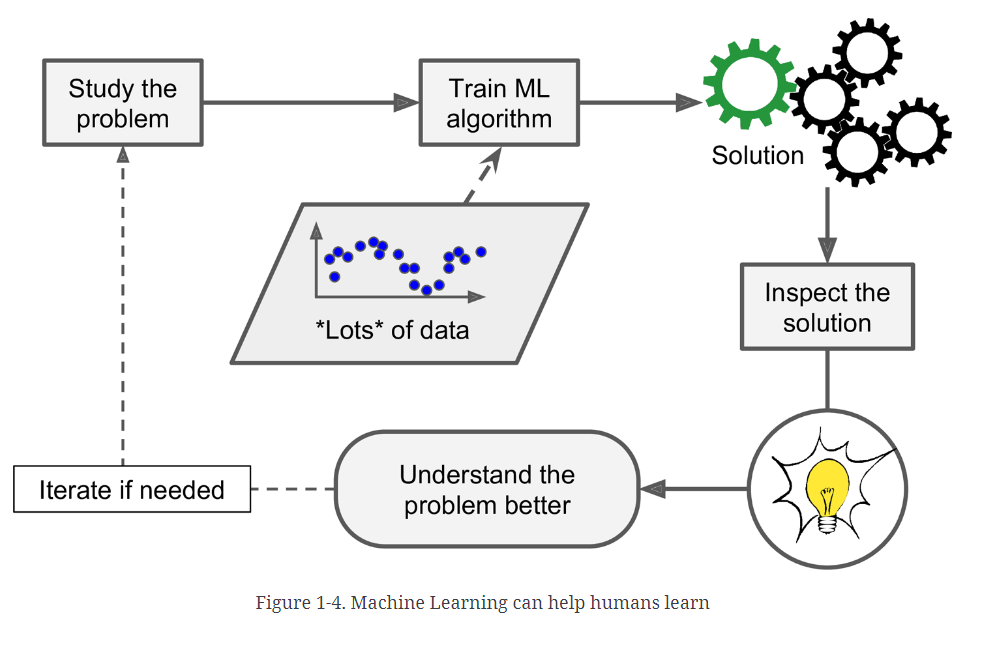
Diagram

Description automatically generated

Diagram

Description automatically generated

“Machine Learning helps humans learn.” Once we create a trained model, inspect the model. As the spam filter example: the model may reveal words or combinations of words that it believes is the best predictor of spam; it can lead to better understanding of the problem.



Text, letter

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