Overview

1. Basic Idea about repository

This repository contains reading material from python to deep learning. It takes around 500 hours to get grip over machine / deep learning. If you follow this repository then you will get fair idea about what these technologies are and how they are implemented. After 500 hours of commitment you will at least be able to get internship in this field. The more you study, the more you get…:)

There are no prerequisites for this repository, but if you have prior knowledge of basic maths and any object oriented programming language then it is a plus point.

2. What is ML ?

Before jumping to definition, lets get familiar with simple terms.

1. Data - Data is at heart of ML It is used to **train** the **model**. The data can be in any form including - tabular, text, image, video and audio.
2. Model - model is an algorithm which **learns** from data and adjusts its parameters to carry out desired task
3. Trained model - model having perfect parameters
4. Learning / training - it is a process of finding best parameters to carryout desired task
5. Explicitly programmed - The model learns by itself from data, you don't need to provide minute details, once you have designed model, it can learn from any suitable data.

Now lets come to definition,

Machine learning enables a machine to automatically learn from data, improve performance from experiences, and predict things without being explicitly programmed.

6. How to follow this repository

To get best out of this repository follow below steps :

1. Learn from various resources about the topic
2. See the official documentation
3. Implement the code on 3 - 5 datasets
4. Make your notes
5. Come to this repository at last
6. Update your notes

In machine learning you need to explore multiple resources and gather information from them. Don't rely on generative tools, rely on official documentation. Revision is a key point.