

# Roadmap to ML and DL

17. April 2019

Source: [Deep Learning on Medium](#)

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Apr 17

This is my learning path to Machine Learning and Deep Learning

*The brain sure as hell doesn't work by somebody programming in rules. - Geoffrey Hinton*

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The way i just follow is top down method and its hardway to understand but its more efficient that any other .

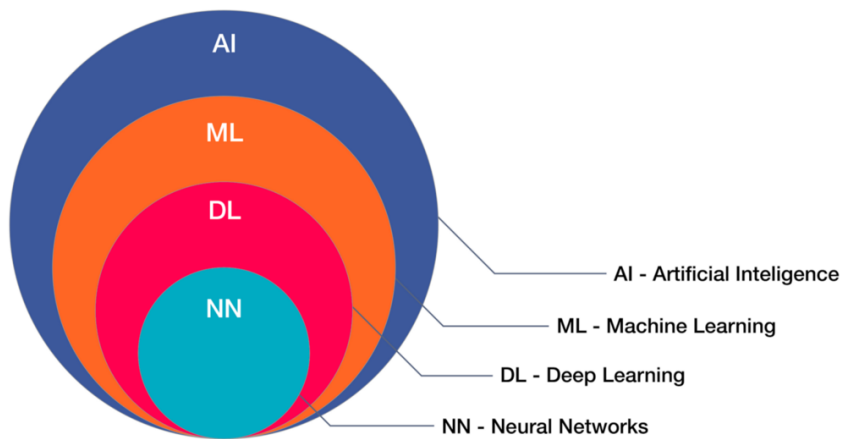
First we should know the basics whats is ML and whats is DL and its classification I just came through internet and get this image to classify both ML and DI in Artificial Intelligence

Search ...



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Difference in AI and ML subset of AI

Here we can see that Artificial intelligence is a combination of ML and DL And NN

In previous days **Arthur Lee Samuel** who invented the term Machine Learning and the Checkers -program was the first successful machine learning program

Later many came and get eager in this field the hype word ML came into the world .

So for learning ML i am suggesting some self paced ML resources which is world class

For learning there is a path i just follow the top down here first i am mentioning from NN → DL → ML → Maths → Python..sorry to say this may be very awkward but beleive me it works

For **Machine learning**

- 1 . [Andrew Ng](#) Machine Learning
- 2 . [Fast.ai](#)
- 3 . [Google Machine Learning crash course](#)
- 4 . Machine Learning tutorial form [kaggle](#)

**Deep learning resources**

- 1 . [MIT Introduction to deep learning](#)
- 2 . [fast.ai](#)
- 3 . [Deep learning](#)— Coursera(Andrew Ng)

**BLOG**

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The highly curated blog like

- 1 . [colah blog](#)
- 2 . [karpathy blog](#)
3. [distill](#)

And one blog which i loved most <http://blog.otoro.net/>

## GITHUB repos

The best Github resources that gives you free code tutorials as well as an idea that how to code.

### **[geekylax/How-to-learn-Deep-Learning](#)**

*A top-down, practical guide to learn AI, Deep learning and Machine Learning. – [geekylax/How-to-learn-Deep-Learninggithub.com](#)*

### **[geekylax/awesome-machine-learning](#)**

*A curated list of awesome Machine Learning frameworks, libraries and software. – [geekylax/awesome-machine-learninggithub.com](#)*

### **[geekylax/pytorch-tutorial](#)**

*PyTorch Tutorial for Deep Learning Researchers. Contribute to [geekylax/pytorch-tutorial](#) development by creating an...[github.com](#)*

### **[geekylax/data-science-ipython-notebooks](#)**

*Data science Python notebooks: Deep learning (TensorFlow, Theano, Caffe, Keras), scikit-learn, Kaggle, big data (Spark...[github.com](#)*

### **[geekylax/TopDeepLearning](#)**

*A list of popular github projects related to deep learning – [geekylax/TopDeepLearninggithub.com](#)*

### **[endymecy/awesome-deeplearning-resources](#)**

*Deep Learning and deep reinforcement learning research papers and some codes – [endymecy/awesome-deeplearning-resourcesgithub.com](#)*

### **[mbadry1/Top-Deep-Learning](#)**

*Top 200 deep learning Github repositories sorted by the number of stars. – [mbadry1/Top-Deep-Learninggithub.com](#)*

### **[ChristosChristofidis/awesome-deep-learning](#)**

*A curated list of awesome Deep Learning tutorials, projects and communities. ...[github.com](#)*

And also check out my [github repo here](#)

Here i mentioned some awesome repos for Machine Learning as well as Deep Learning also some beautifully documented NLP resources

check out forked repos [here](#) which are most important and starred repo [here](#) which are in construction

I am doing some projects tutorials form what i learn from the resources mentioned above here

[Please fork my repo and add ,get pull request to make changes](#)

## **WEBSITES**

[Websites which are useful to learn](#)

[Analytics vidhya](#)

[kdnuggets](#)

[superdatascience](#)

[datasciencecentral](#)

[hackernoon](#)

## **YOUTUBE Resources**

The best youtube video tutorials that i inspired a lot

[sirajraval](#)

[move37](#)

sorry to say this the one and only siraj is best for youtube resources you can get most of learnings here

MATH resources

Basic Maths tutorials resources are useful to get an idea sorry to say this i get to do this at last after doing these above steps

[khanacademy](#)

[3blue1brown](#)

[fastai](#)

So yes tatsol after finishing these tutorials i am doing research in quantum computing for Deeplearning

So i will post my knowledge in my upcoming post

Why Deep Learning is Significantly Different From Machine Learning  
Source: Deep Learning on Medium Rohit S Apr 16  
There is a great deal of confusion these days about Artificial Intelligence (AI), Machine  
16. April 2019  
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6 Things To Do For Mastering Deep Learning In 2018  
Before I show you how to master deep learn in the most efficient way, I need to clarify something. Most people (newbies) don't know the  
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My Journey through the maze of Machine Learning/Deep Learning — The Beginnings  
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