Should you still learn the rudimentary models?

**“Gone, are the days when we used to win competitions through Random Forests.”**

The rise of Deep Learning techniques has triumphed the machine learning models of the past. The increasing trend of their usage begs the question, should you still learn the rudimentary models?

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Pytorch and Keras(TensorFlow ) are now the deep learning libraries which are used to solve the tasks of every field imaginable , whether it be image classification , recommendation systems , NLP etc.

Even a google trend search , show how in previous 12 months , deep learning methods are searched way more than old machine learning algorithms .

Even if you account for the bias of graph in the sense , that Pytorch and Tensorflow are libraries and the other terms concept . It is quite clear , that there is huge difference among both .

So should a beginner now , directly only learn deep learning models only , considering the industry has started using Neural Networks for many tasks and there is rapid development in fields with regards to efficient tabular data methods . Ex Tabnet

**NO!**

* While deep learning models have showed their value by performance , chances are your task may not require any complex methods for solving them .
* The models deeply rely on GPU , and that of NVIDIA GPUs for training of the models .
* While you may understand the models , chances are your colleague and even the implementation of such model would be Greek to them .
* Even if you are implementing them , you might need to understand how data works by using alternative which you might be quickly able to implement .

Therefore , it seems the rudimentary models still seems to have great value right now , while there is a trend towards using such models , there industry still uses the old machine learning algorithms . You might also end up learning a lot more about other things .