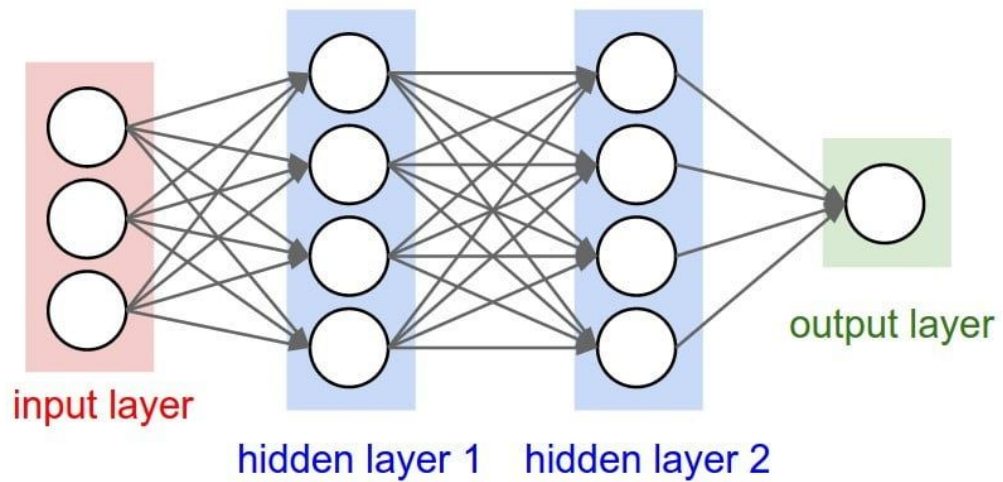
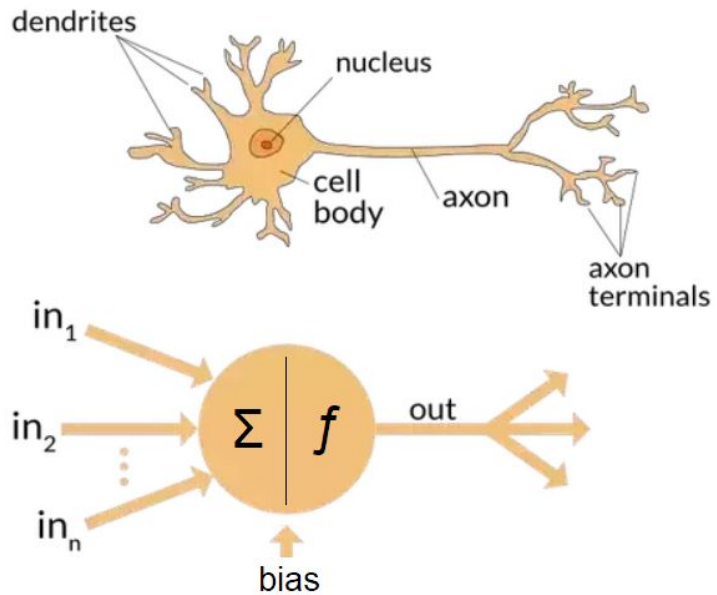
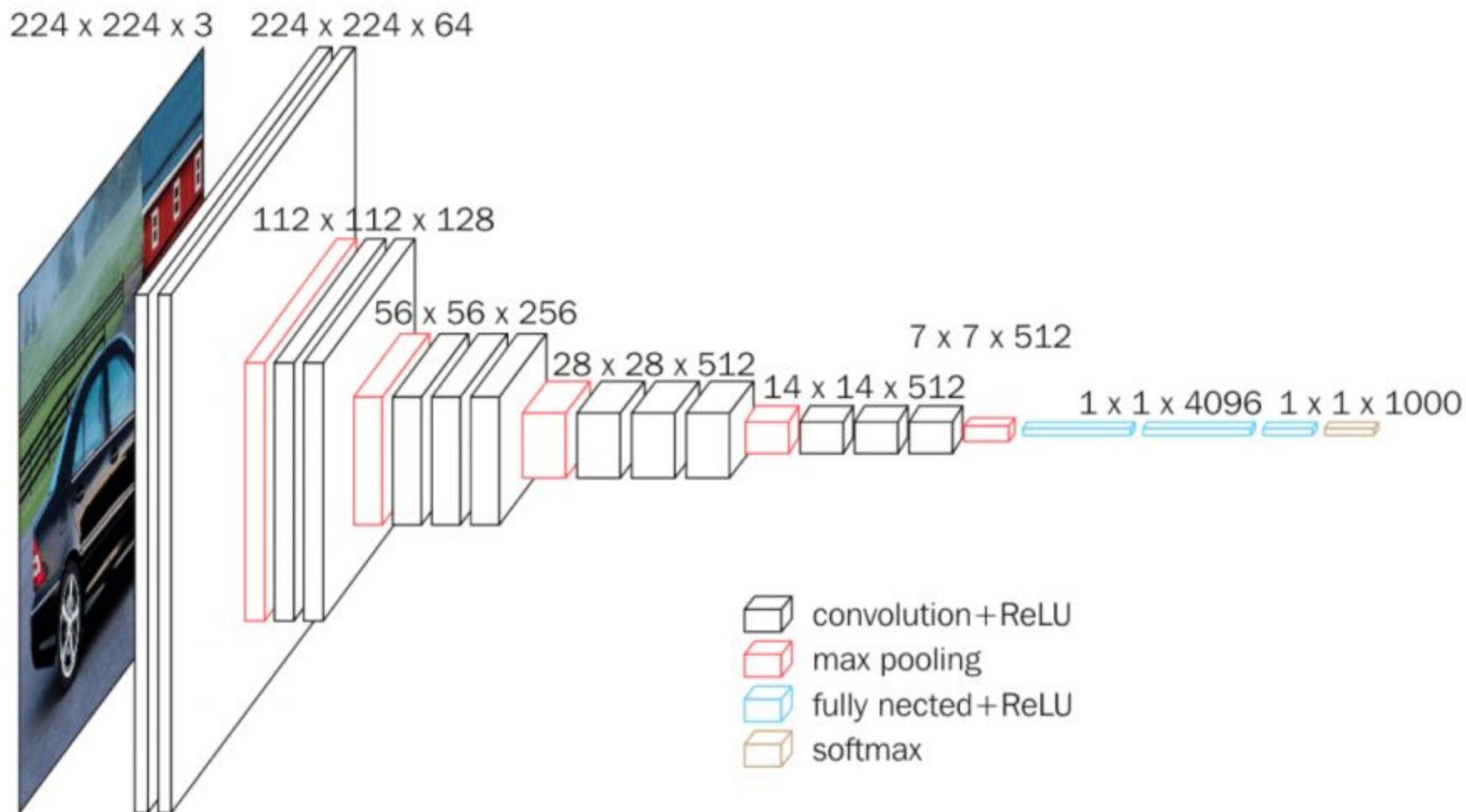


# Deep learning in the cloud

by Ioannis Prapas and Evgeny Pozdeev

Repo: <https://github.com/iprapas/research-project>





● **deep learning**  
Search term

+ Compare

United States ▼

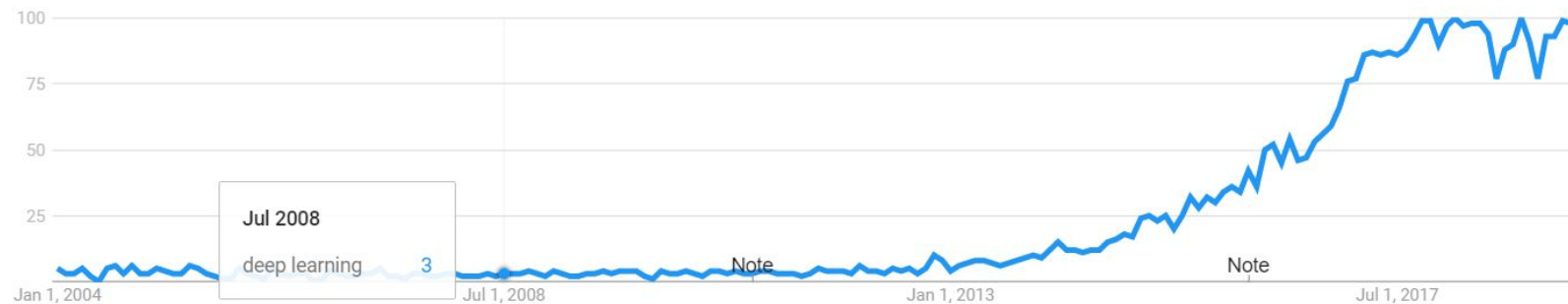
2004 - present ▼

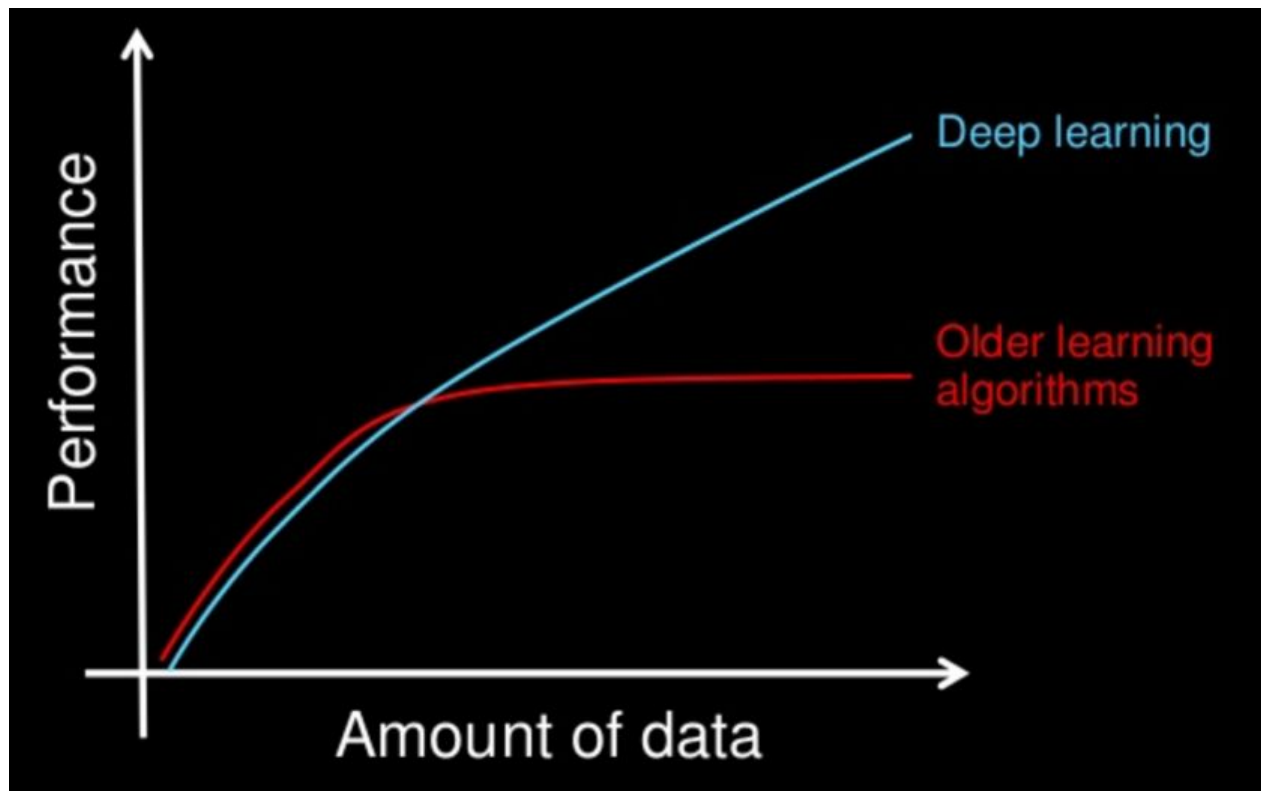
All categories ▼

Web Search ▼

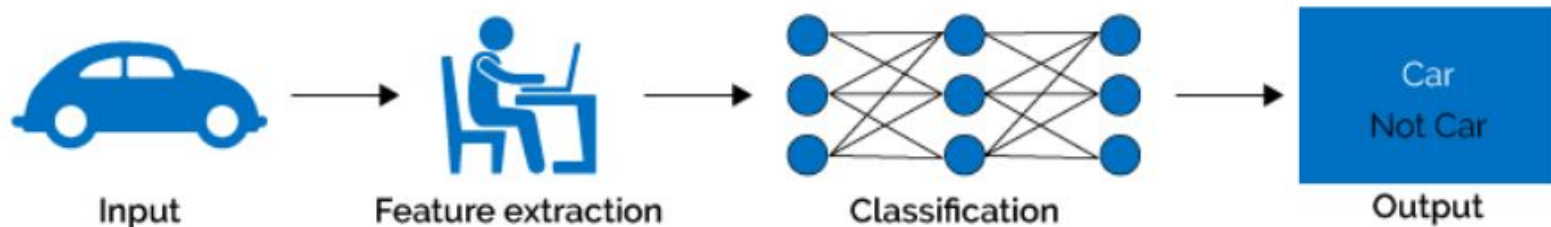
Interest over time 

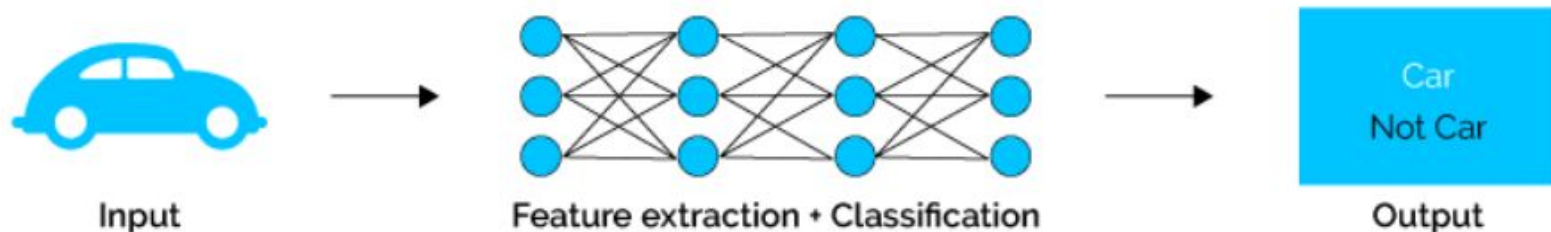




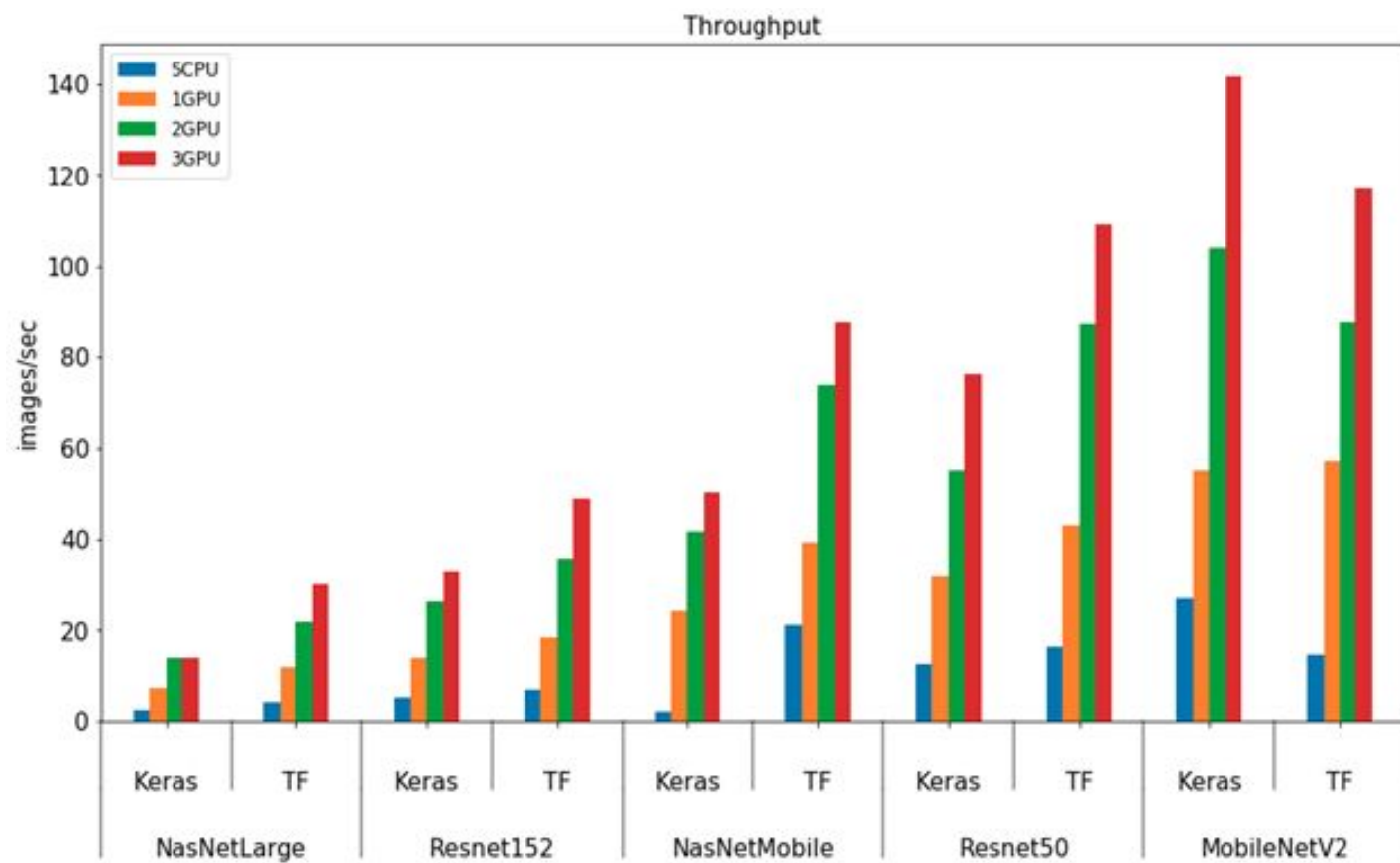
## Machine Learning



## Deep Learning



<b>When to use</b>	<b>When NOT to use (probably)</b>
<p data-bbox="83 410 372 454">A lot of data</p> <p data-bbox="83 519 929 634">Unstructured data (images, videos, sound)</p>	<p data-bbox="973 410 1769 459">A few data (see transfer learning)</p> <p data-bbox="973 519 1499 568">Model interpretability</p> <p data-bbox="973 628 1576 678">Low computing capacity</p>




















colab



Welcome To Colaboratory

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CONNECTEDITING


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 SECTION


## Getting Started

The document you are reading is a [Jupyter notebook](#), hosted in Colaboratory. It is not a static page, but an interactive environment that lets you write and execute code in Python and other languages.

For example, here is a **code cell** with a short Python script that computes a value, stores it in a variable, and prints the result:


```
[ ] seconds_in_a_day = 24 * 60 * 60
    seconds_in_a_day
```

 86400

To execute the code in the above cell, select it with a click and then either press the  button to the left of the code, or use the keyboard shortcut "`%/Ctrl+Enter`".

All cells modify the same global state, so variables that you define by executing a cell can be used in other cells:

```
[ ] seconds_in_a_week = 7 * seconds_in_a_day
    seconds_in_a_week
```

 604800

For more information about working with Colaboratory notebooks, see [Overview of Colaboratory](#).

## More Resources

Learn how to make the most of Python, Jupyter, Colaboratory, and related tools with these resources:

Cloud Service	NVIDIA GPU	CPUs	GPU RAM	CPU RAM	Cost Per Hour	Wall Time	Cost to Train
Google Colab	K80	1	12	13	0.00	31.17	0.000
Google Cloud Compute Engine	P100	6	16	20	0.50	5.32	0.044
Google Cloud Compute Engine	K80	6	12	17	0.20	18.13	0.060
Google Cloud Compute Engine	V100	8	16	20	0.82	3.83	0.052
Google Cloud Compute Engine	P4	4	8	26	0.33	10.28	0.057
Google Cloud Compute Engine	V100 x 2	8	32	30	1.57	3.63	0.095
Google Cloud Compute Engine	V100 x 4	8	64	30	3.05	3.38	0.172
AWS EC2	K80 (p2.xlarge)	4	12	61	0.28	20.90	0.098
AWS EC2	K80 x 8 (p2.8xlarge)	32	96	488	2.35	16.12	0.631
AWS EC2	V100 (p3.2xlarge)	8	16	61	1.05	3.85	0.067
AWS EC2	V100 x 4 (p3.8xlarge)	64	128	488	4.05	2.97	0.200



julia

mxnet



DEEP  
LEARNING

theano

Microsoft  
CNTK



Caffe2







**TensorFlow**





## What are your reviews between PyTorch and TensorFlow?

### 4 Answers




Hieu Pham, Has done some machine learning

Updated Nov 24, 2017 · Upvoted by Shreshth Gandhi, M.A.Sc Machine Learning, University of Toronto (2017) · Author has 140 answers and 1.1m answer views

PyTorch is like that cute girl you meet at the bar. Her smile is as sweet as a **pie**, and her look as hot and enlightening as a **torch**. If you initiate a conversation with her, things go very smoothly. Start your business together? Everything flies!

TensorFlow is like your long-term relationship partner. You suffer a lot of **tensions** in the beginning, and still do, but things eventually **flow** so well between you that you don't want to leave.

Me : mom can we have  ?

Mom : no, we have  at home

 at home :



