



# Machine Learning

## 2020.2

Lesson #01



ivan@imd.ufrn.br



<https://github.com/ivanovitchm>





178 días





Google Meet

LIVE



loom @ufrn.edu.br

Mensagens

Atualizar Foto e Perfil

Meus Dados Pessoais

Google For Education NEW

Sign In

Get Loom For Free

# Say it with video

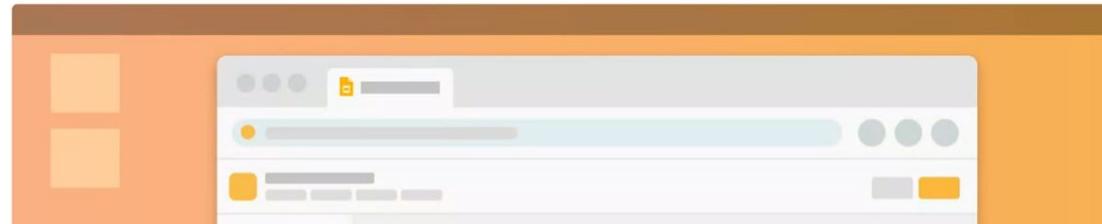


The expressiveness of video with the convenience of messaging.

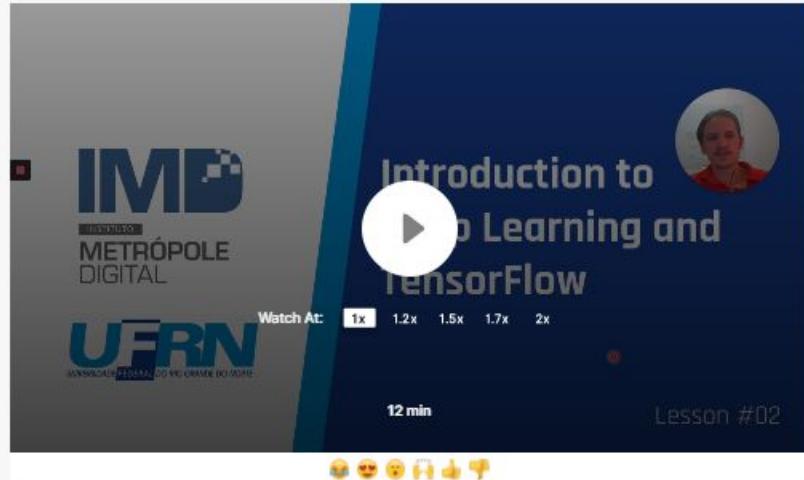
Communicate more effectively wherever you work with Loom.

Get Loom for Free

For Mac, Windows, and iOS



# How to interact in loom and highlight questions?



Deep Learning 2020.6 - Lesson 02 - Track 01 - The perceptron

by Ivanovitch Silva  
September 7, 2020

Lesson 02

Video Views  
SS +3  
Silvio Anonymous

5 total, 4 unique

0:00 / 12:45

Record a Reply Post

A screenshot of a video player interface for a lesson titled 'Deep Learning 2020.6 - Lesson 02 - Track 01 - The perceptron'. The video is by Ivanovitch Silva and was posted on September 7, 2020. It has 5 total views and 4 unique viewers. The video duration is 12:45. Below the video, there is a section titled 'Video Views' showing two entries: 'SS' and '+3', with names 'Silvio' and 'Anonymous' listed under them. At the bottom of the screen, there are two buttons: 'Record a Reply' and 'Post'.



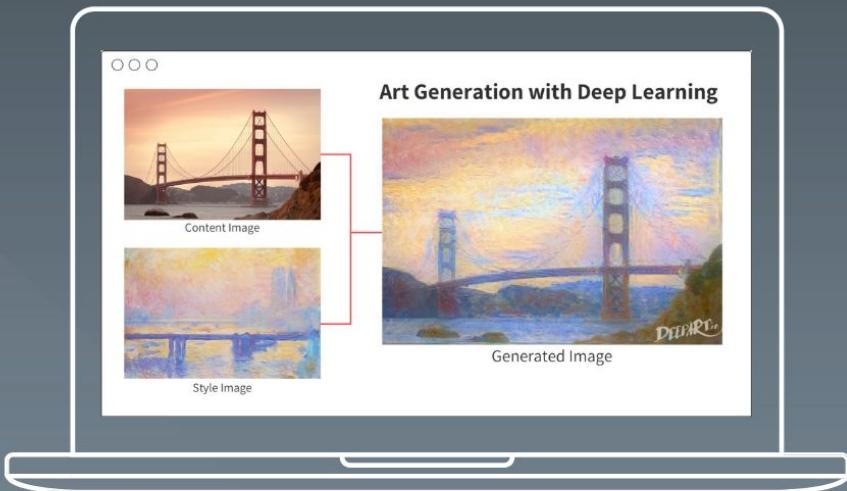
# DataCamp

<http://bit.do/datacampML>

 R >	 Python >	 SQL >	 Git >
 Shell >	 Spreadsheets >	 Theory >	 Scala >
 Tableau >	 Excel >	 Power BI >	

# Break Into AI

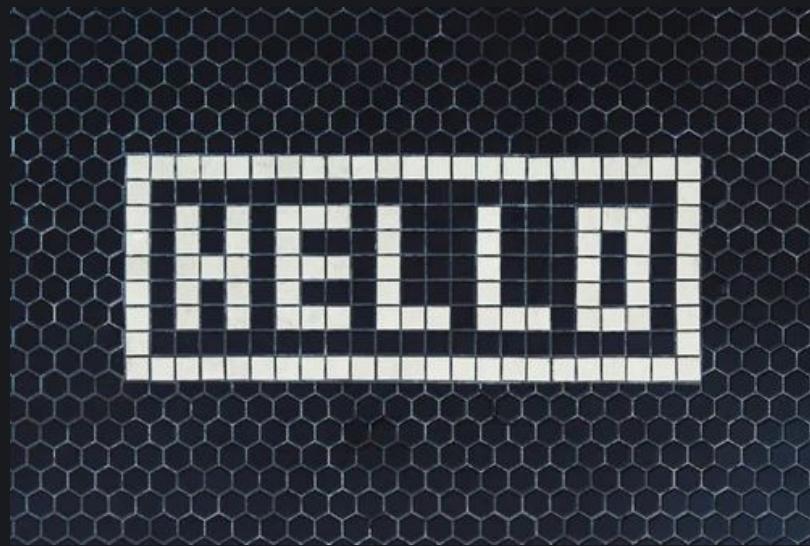
Whether you want to build algorithms or build a company, deeplearning.ai's courses will teach you key concepts and applications of AI.

[Take the Deep Learning Specialization](#)

# Medium

# Welcome to Medium, where words matter.





# ARTIFICIAL INTELLIGENCE

## ARTIFICIAL INTELLIGENCE

Any technique which enables computer to mimic human behavior



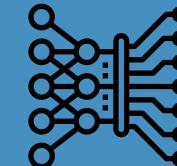
## MACHINE LEARNING

AI techniques that give computers the ability to learn without being explicitly programmed to do so



## DEEP LEARNING

A subset of ML which make the computation of multi-layer neural network feasible

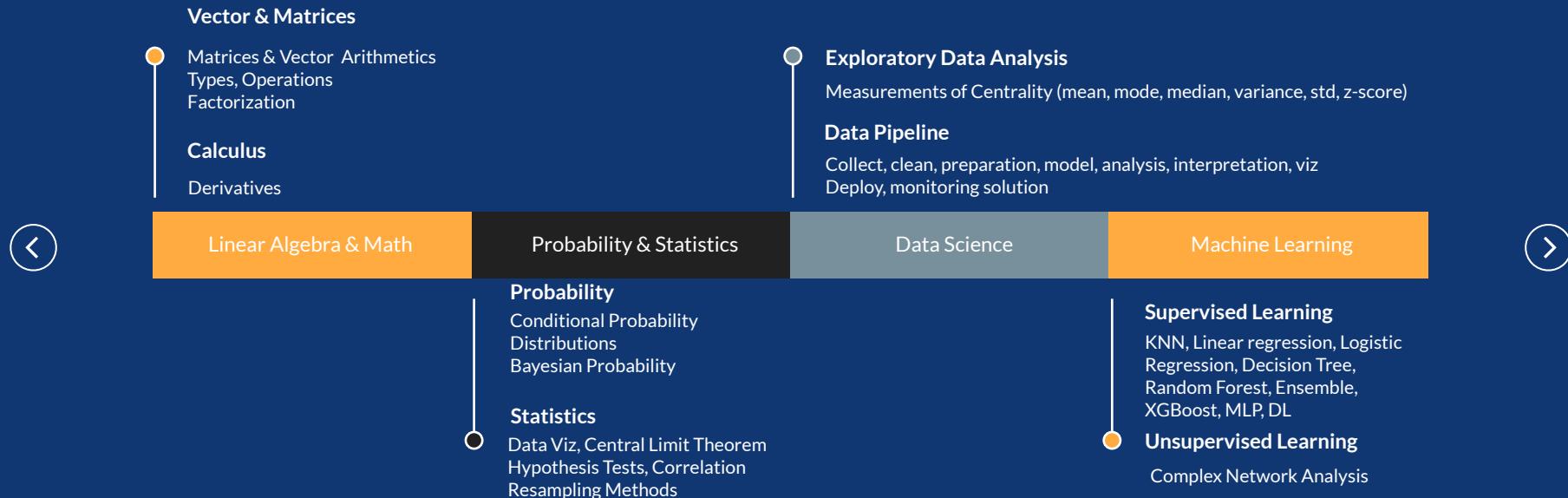


1950 - 1980

1980 - 2010

2010 - **2020** ....

# Your Pathway



A wide-angle, long-exposure photograph of a city at night. The scene is filled with streaks of light in various colors (red, orange, yellow, green, blue, purple) that radiate outwards from the center, creating a sense of motion and energy. These light trails are likely from vehicles on a highway or major road. In the background, the silhouettes of numerous skyscrapers and buildings are visible against a dark sky. The overall effect is a vibrant, abstract representation of urban life and technology.

#10YEARSCHALLENGE



2010



2020

# 2020



# 2010





\$0.00  
*2010*



\$9,402.00  
*2020*



2010



2010



2020



2010



2020



BIG  
changes

# HOW LONG WOULD IT TAKE TO DOWNLOAD “E.T.” THE MOVIE?

## 4G



Make a round of tea

## 5G



Blink!!

**What do they  
have in common?**

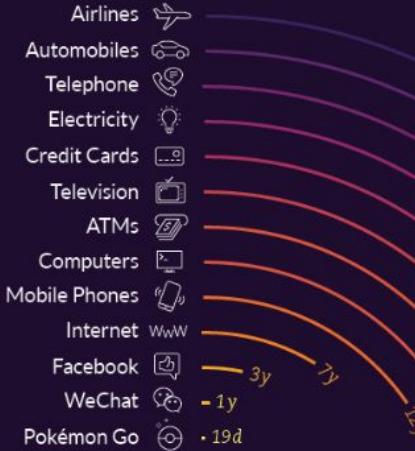
exponential  
growth of  
technologies



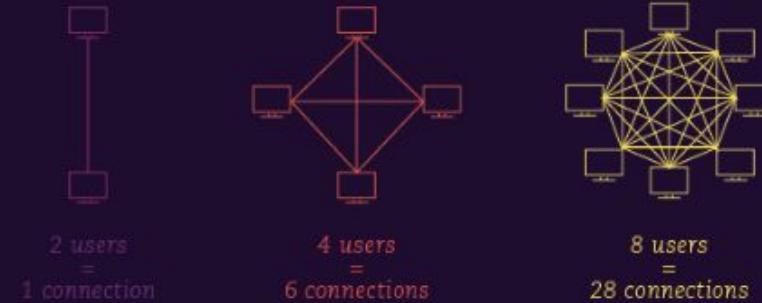
IT'S TIME TO LOOK BEYOND MOORE'S LAW



<https://www.technologyreview.com/2020/02/24/905789/were-not-prepared-for-the-end-of-moores-law/>

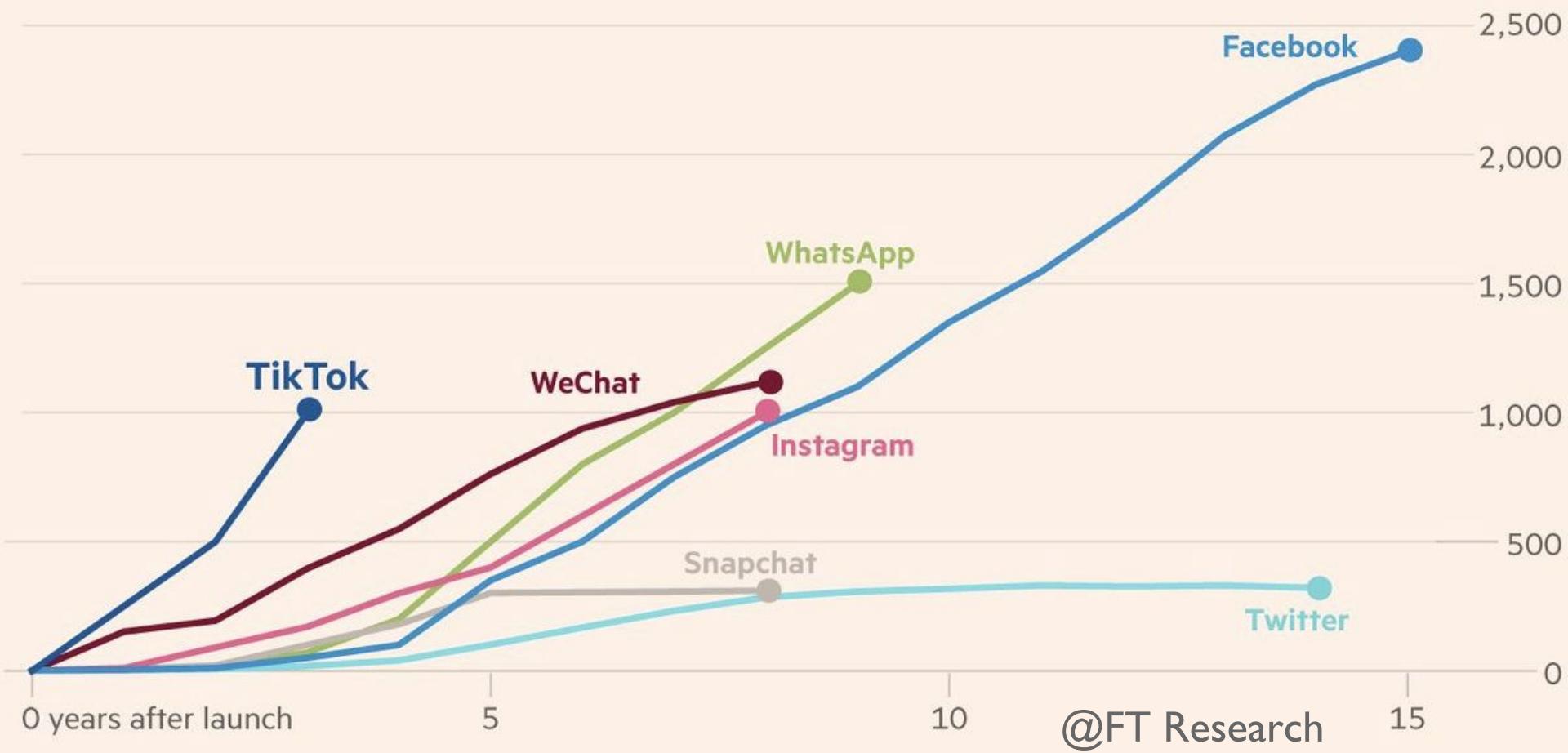


**Reaching  
50 million  
users**



How Long does it take to hit 50 million users?

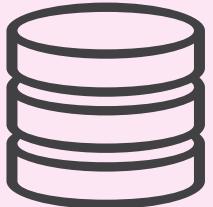
The impact of the shift to digital and the power of network effects



What is the

**CONSEQUENCE**

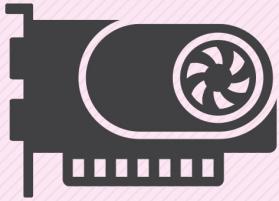
of all that?



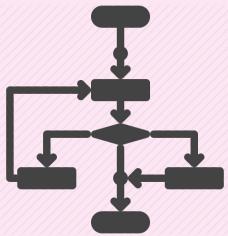
DATA



INTERNET



HARDWARE



ALGORITHM



{AI}

# +40k papers !!!!!



## COVID-19: A scholarly production dataset report for research analysis

Breno Santana Santos<sup>a,b,\*</sup>, Ivanovitch Silva<sup>a</sup>, Marcel da Câmara Ribeiro-Dantas<sup>c</sup>, Gislany Alves<sup>a</sup>, Patricia Takako Endo<sup>d</sup> and Luciana Lima<sup>a</sup>

<sup>a</sup> Universidade Federal do Rio Grande do Norte (UFRN), Rio Grande do Norte, Brazil

<sup>b</sup> Núcleo de Pesquisa e Prática em Inteligência Competitiva (NUPIC), Universidade Federal de Sergipe (UFS), Itabaiana/SE, Brazil

<sup>c</sup> Institut Curie (UMR168), Sorbonne Université (EDITE), Paris, France

<sup>d</sup>Universidade de Pernambuco (UPE), Pernambuco, Brazil

---

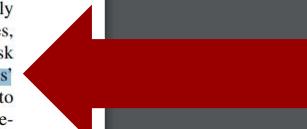
### ARTICLE INFO

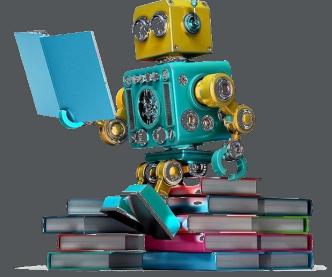
**Keywords:**  
COVID-19  
SARS-CoV-2  
Pandemic  
Data Science  
Bibliometrics  
Scientometrics

---

### ABSTRACT

COVID-19 has been recognized as a global threat, and several studies are being conducted in order to contribute to the fight and prevention of this pandemic. This work presents a scholarly production dataset focused on COVID-19, providing an overview of scientific research activities, making it possible to identify countries, scientists and research groups most active in this task force to combat the coronavirus disease. The dataset is composed of 40,212 records of articles' metadata collected from Scopus, PubMed, arXiv and bioRxiv databases from January 2019 to July 2020. Those data were extracted by using the techniques of Python Web Scraping and pre-processed with Pandas Data Wrangling. In addition, the pipeline to preprocess and generate the dataset are versioned with the Data Version Control tool (DVC) and are thus easily reproducible and auditable.





NLP +  
Text Generator Model +  
Google Colab + GPU K80 +  
OpenAI GPT-2

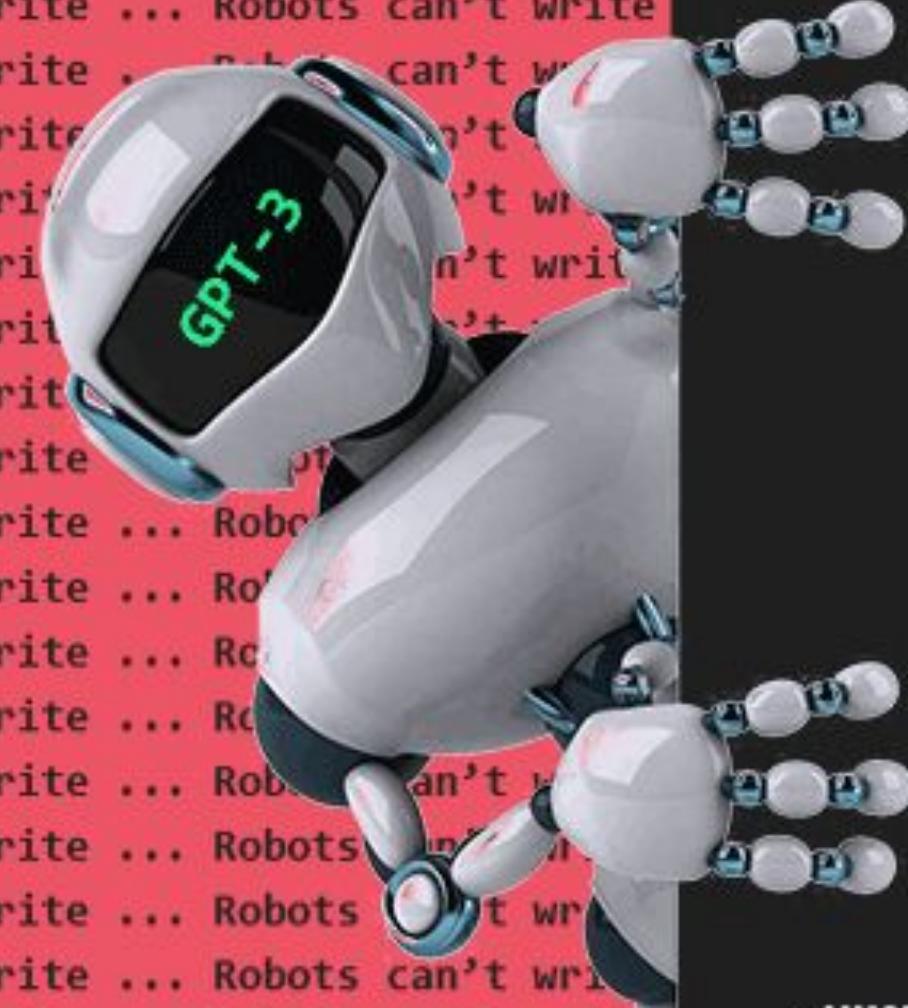
```
pip install gpt-2-simple
```

Brazil is one of the most densely populated countries in the world. The outbreak has affected more than 600,000 people and put the country on the front line of the global pandemic. As the outbreak continues to spread, the health and socioeconomic reforms of the president and his government have been criticised for being overly harsh. This analysis attempts to understand the reasons behind the policies and why they are being so harshly criticised, and how the institutional changes and the administration have been ineffective in dampening the disease. In particular, the reasons for the policies are discussed. It is argued that the policies are overly harsh not only because of the lack of economic growth but also because of the lack of social and health security, making it difficult to pay the healthcare bill. The authors conclude that the policies are counterproductive and the policies need to be reformed. This study provides a framework for analysing the policies of the government and the subsequent failure in their implementation.



Created by GPT-2

175B vs 1.5B  
355GPU/y  
4.6M U\$





[beta.openai.com](https://beta.openai.com)

# Welcome to Simplify

Type your text below and we will explain it back to you in a simplified fashion:

Your text

Recent work has demonstrated substantial gains on many NLP tasks and benchmarks by pre-training on a large corpus of text followed by fine-tuning on a specific task. While typically task-agnostic in architecture, this method still requires task-specific fine-tuning datasets of thousands or tens of thousands of examples. By contrast, humans can generally perform a new language task from only a few examples or from simple instructions – something which current NLP systems still largely struggle to do. Here we show that scaling up language models greatly improves task-agnostic, few-shot performance, sometimes even reaching competitiveness with prior state-of-the-art finetuning approaches. Specifically, we train GPT-3, an autoregressive language model with 175 billion parameters, 10x more than any previous non-sparse language model, and test its performance in the few-shot setting. For all tasks, GPT-3 is applied without any gradient updates or fine-tuning with tasks and few-shot

Simplify

Simplified

We took the most powerful language model ever trained, 175 billion parameters, 10x more than any previous non-sparse language model, and applied it to tasks without any training, fine tuning, or gradient updates. We tested it on many NLP datasets and tasks, including translation, question answering, and cloze tasks, as well as several tasks that require on the fly reasoning or domain adaptation, such as unscrambling words, using a novel word in a sentence, or performing 3-digit arithmetic. The results were very impressive.





New topic

## Python is a good language for Deep Learning

↗ Share ⚙ Try again

I think a good language for Deep Learning would be Python. It is easy to use and has various libraries which are all open source. The python community is large so there is lots of support available if you need help or advice on any subject, including deep learning.

# GPT3 *Examples* 〈〉

## What is GPT-3?

GPT-3 is a [language model](#) developed by [OpenAI](#)

Developers have built an impressively diverse range of applications using the [GPT-3 API](#), including an all purpose Excel function, a recipe generator, a layout generator (translates natural language to JSX), a search engine and several others.

▼ SHOW ME

🐦 READ THE TWEETS

✉ SHARE YOUR APP

<https://gpt3examples.com>

# Language Models are Few-Shot Learners

Tom B. Brown\* Benjamin Mann\* Nick Ryder\* Melanie Subbiah\*

Jared Kaplan† Prafulla Dhariwal Arvind Neelakantan Pranav Shyam Girish Sastry

Amanda Askell Sandhini Agarwal Ariel Herbert-Voss Gretchen Krueger Tom Henighan

Rewon Child Aditya Ramesh Daniel M. Ziegler Jeffrey Wu Clemens Winter

Christopher Hesse Mark Chen Eric Sigler Mateusz Litwin Scott Gray

Benjamin Chess Jack Clark Christopher Berner

Sam McCandlish Alec Radford Ilya Sutskever Dario Amodei

OpenAI

## Abstract

Recent work has demonstrated substantial gains on many NLP tasks and benchmarks by pre-training on a large corpus of text followed by fine-tuning on a specific task. While typically task-agnostic in architecture, this method still requires task-specific fine-tuning datasets of thousands or tens of thousands of examples. By contrast, humans can generally perform a new language task from only a few examples or from simple instructions – something which current NLP systems still largely struggle to do. Here we show that scaling up language models greatly improves task-agnostic, few-shot performance, sometimes even reaching competitiveness with prior state-of-the-art fine-tuning approaches. Specifically, we train GPT-3, an autoregressive language model with 175 billion parameters, 10x more than any previous non-sparse language model, and test its performance in the few-shot setting. For all tasks, GPT-3 is applied without any gradient updates or fine-tuning, with tasks and few-shot demonstrations specified purely via text interaction with the model. GPT-3 achieves strong performance on many NLP datasets, including translation, question-answering, and cloze tasks, as well as several tasks that require on-the-fly reasoning or domain adaptation, such as unscrambling words, using a novel word in a sentence, or performing 3-digit arithmetic. At the same time, we also identify some datasets where GPT-3’s few-shot learning still struggles, as well as some datasets where GPT-3 faces methodological issues related to training on large web corpora. Finally, we find that GPT-3 can generate samples of news articles which human evaluators have difficulty distinguishing from articles written by humans. We discuss broader societal impacts of this finding and of GPT-3 in general.

2015

K80 | CUDA®

36,000 Mins (25 Days)

2017

NVIDIA® DGX-1™ | Volta | Tensor Cores

480 Mins (8 Hours)

2019

NVIDIA DGX SuperPOD™ | NVIDIA NVSwitch™ | Mellanox InfiniBand

8 HRS TO  
80 SECS

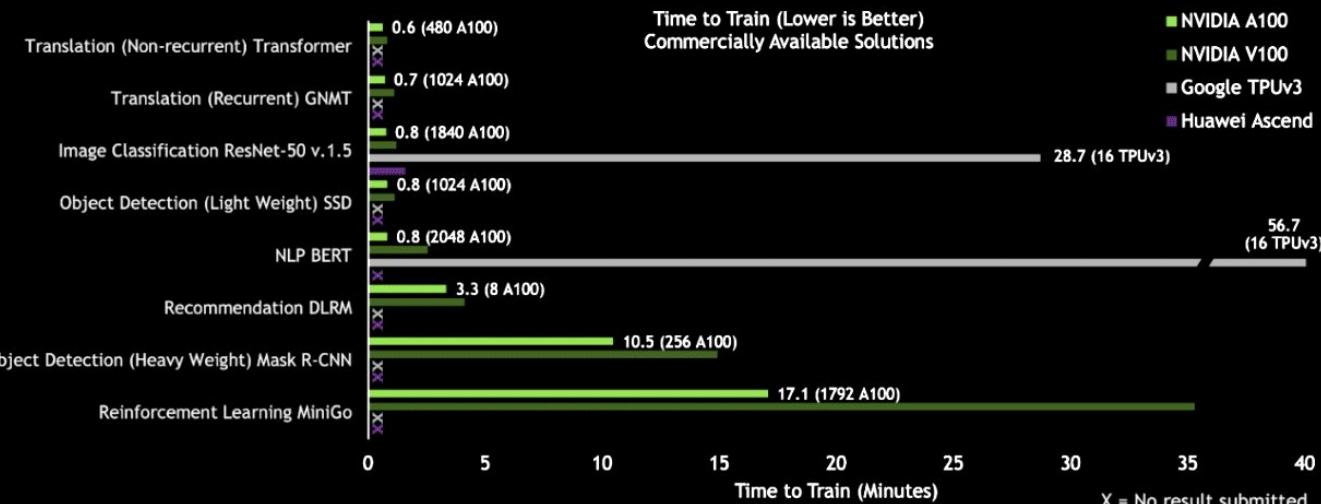
- 80 Secs (1.33 Mins) (ResNet-50, Image Classification)
- 1.59 Mins (Transformer, Non-Recurrent Translation)
- 1.8 Mins (GNMT, Recurrent Translation)
- 2.23 Mins (SSD, Lightweight Object Detection)
- 13.57 Mins (Reinforcement Learning, MiniGo)
- 18.47 Mins (Mask R-CNN, Heavyweight Object Detection)

# NVIDIA Breaks 16 AI Performance Records in Latest MLPerf Benchmarks

NVIDIA A100 GPUs, DGX SuperPOD systems declared world's fastest commercially available products for AI training.

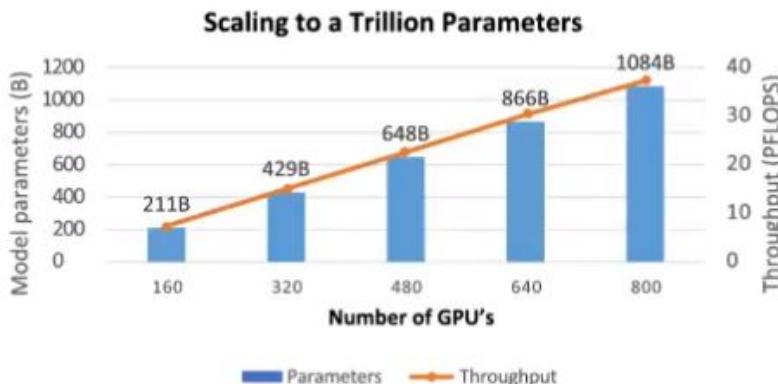
July 29, 2020 by PARESH KHARYA

## NVIDIA DGX SUPERPOD SETS ALL 8 AT SCALE AI RECORDS Under 18 Minutes To Train Each MLPerf Benchmark



MLPerf 0.7 Performance comparison at Max Scale. Max scale used for NVIDIA A100, NVIDIA V100, TPUv3 and Huawei Ascend for all applicable benchmarks. | MLPerf ID at Scale: Transformer: 0.7-30, 0.7-52 , GNMT: 0.7-34, 0.7-54, ResNet-50 v1.5: 0.7-37, 0.7-55, 0.7-1, 0.7-3, SSD: 0.7-33, 0.7-53, BERT: 0.7-38, 0.7-56, 0.7-1, DLRM: 0.7-17, 0.7-43, Mask R-CNN: 0.7-28, 0.7-48, MiniGo: 0.7-36, 0.7-51 | MLPerf name and logo are trademarks. See [www.mlperf.org](http://www.mlperf.org) for more information.

DeepSpeed continues to innovate, making its tools more powerful while broadening its reach. Learn how it now powers 10x bigger model training on one GPU, 10x longer input sequences, 5x less communication volume, & scales to train trillion-parameter models: [aka.ms/AA9nhg8](https://aka.ms/AA9nhg8)



#### 3D Parallelism

- 1 trillion parameter model training

#### ZeRO-Offload

- 1TB model on single GPU, 10x bigger

#### Sparse Attention

- 10x longer sequences, up to 6x faster

#### 1-bit Adam

- 5x less communication

0:25

DeepSpeed: Extreme-scale deep learning model training for everyone  
 [microsoft.com](https://microsoft.com)

Microsoft  
Research

**Microsoft Research** ✓ @MSFTResearch · 6h

The Microsoft Africa Research Institute will focus on collaborative and multi-disciplinary research to address opportunities in Africa and help to solve local challenges at scale: [aka.ms/AA9g31b](https://aka.ms/AA9g31b) ✓

MARI is hiring Applied Scientists in #Ethnography, #HCI, #ML, #NLP, and #AI



Microsoft Africa Research Institute (MARI)

[microsoft.com](https://microsoft.com)

# DATA VIOLENCE

and how bad  
engineering  
choices can  
damage society



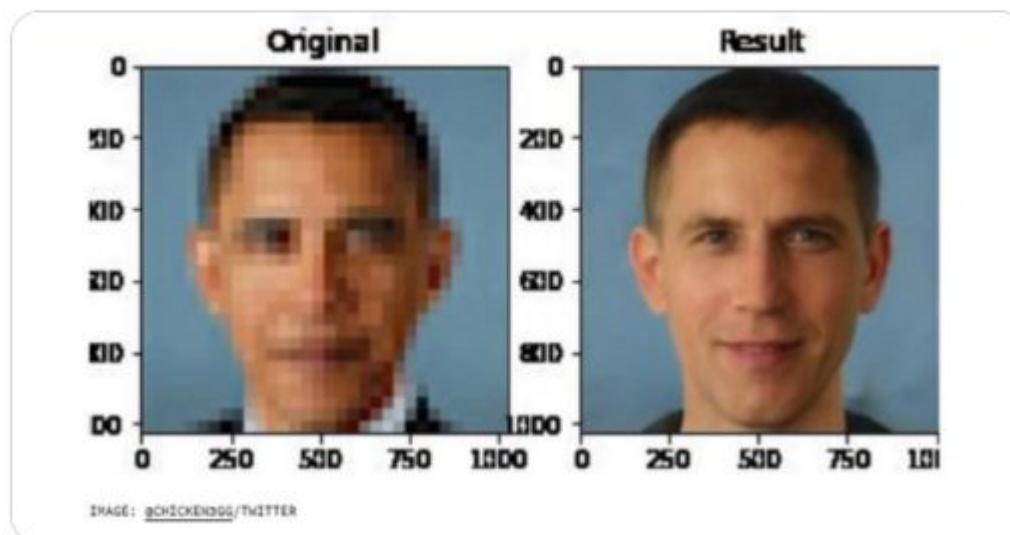


**Hotep Jesus** @HotepJesus · Jun 24

This AI thinks Obama is a white man. 😂



The tool is called Face Depixelizer which reconstructs pixelated images.

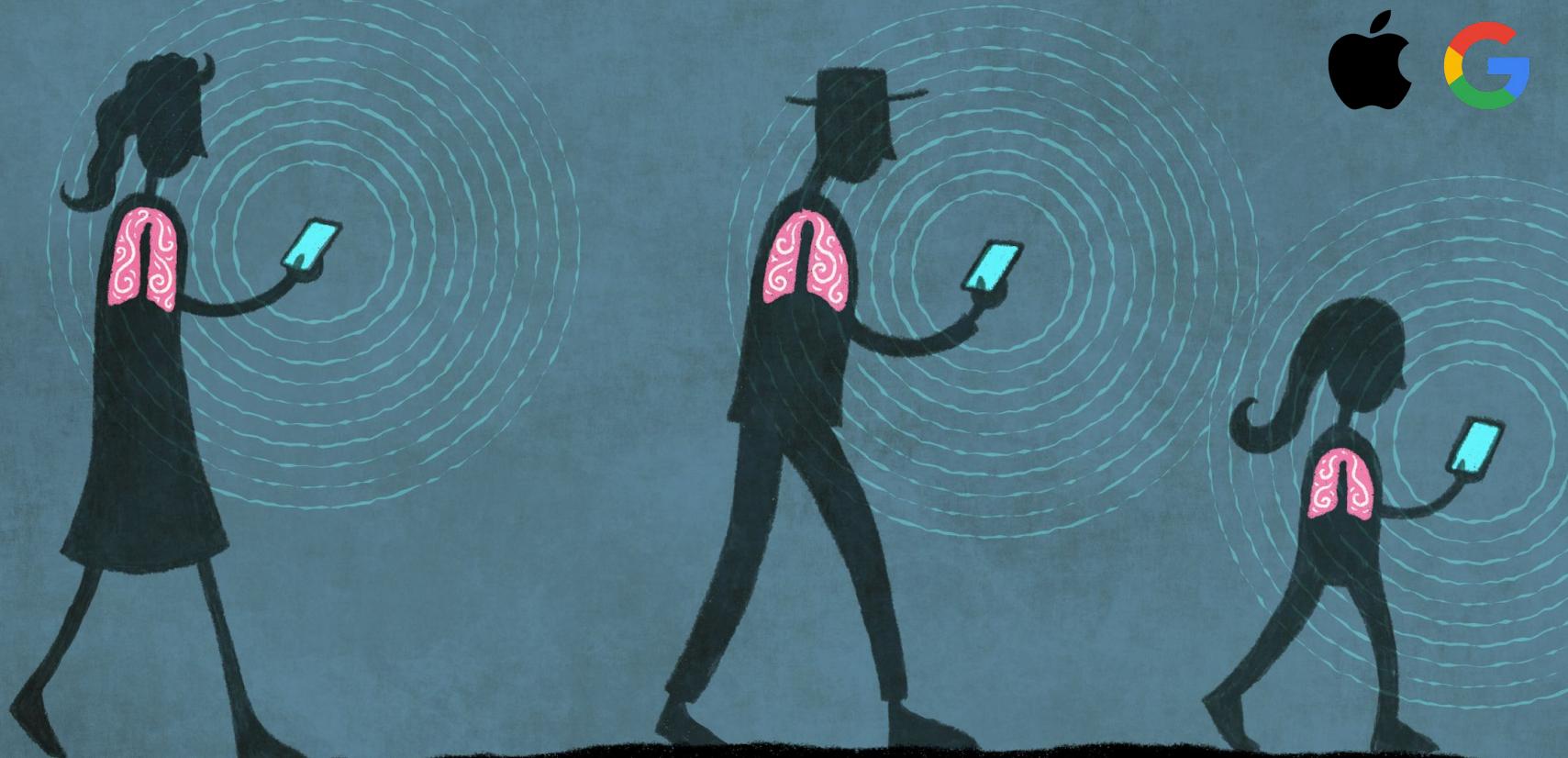


111

90

629





<https://www.eff.org/deeplinks/2020/04/challenge-proximity-apps-covid-19-contact-tracing>

## The Challenge of Proximity Apps For COVID-19 Contact Tracing

ARIELLE PARDES

CULTURE 09.09.2020 09:00 AM

# Hate Social Media? You'll Love This Documentary

*The Social Dilemma* argues that humanity's greatest existential threat is not climate change, but Facebook.

The New York Times

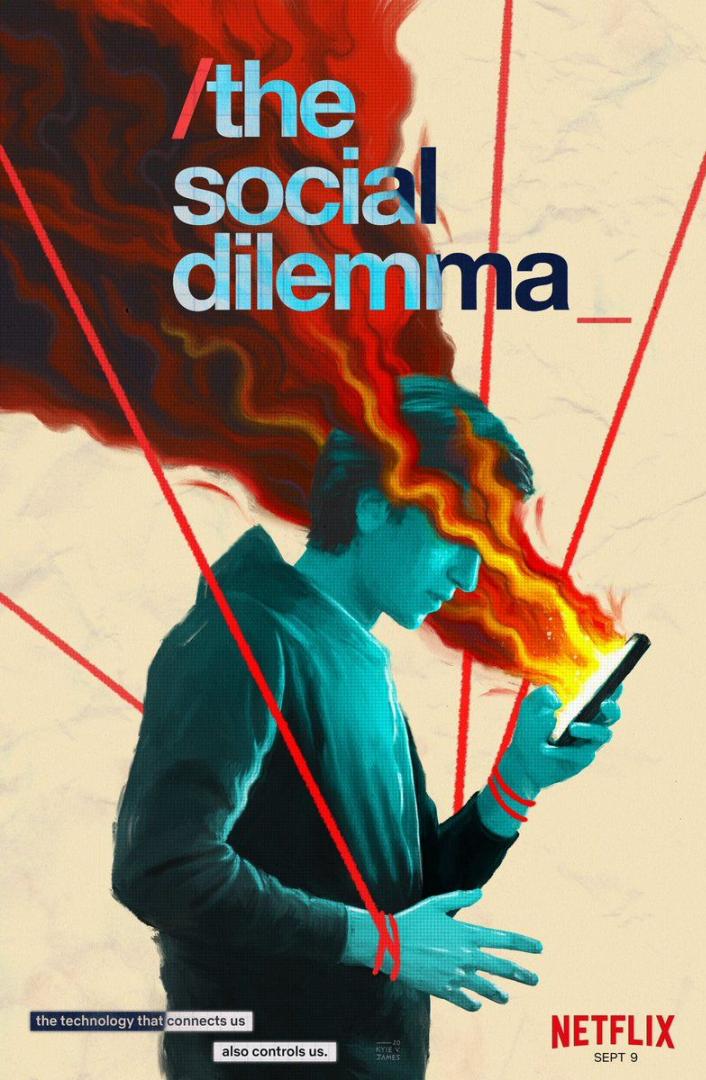


## 'The Social Dilemma' Review: Unplug and Run

This documentary from Jeff Orlowski explores how addiction and privacy breaches are features, not bugs, of social media platforms.



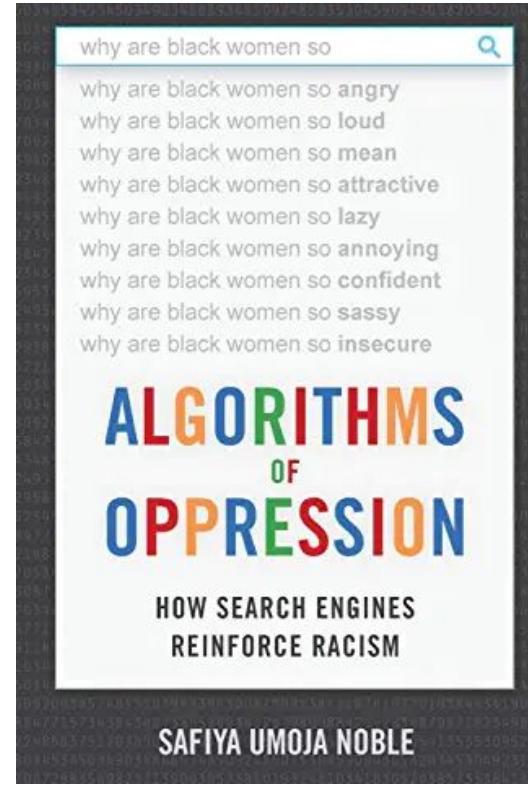
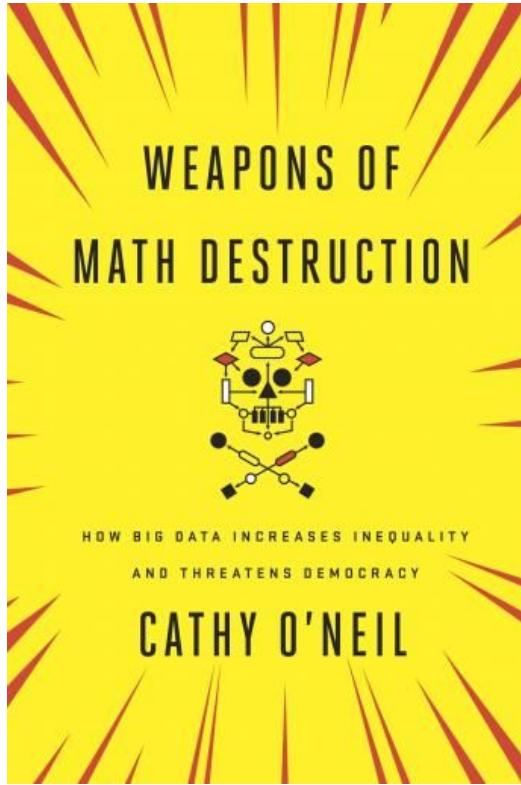
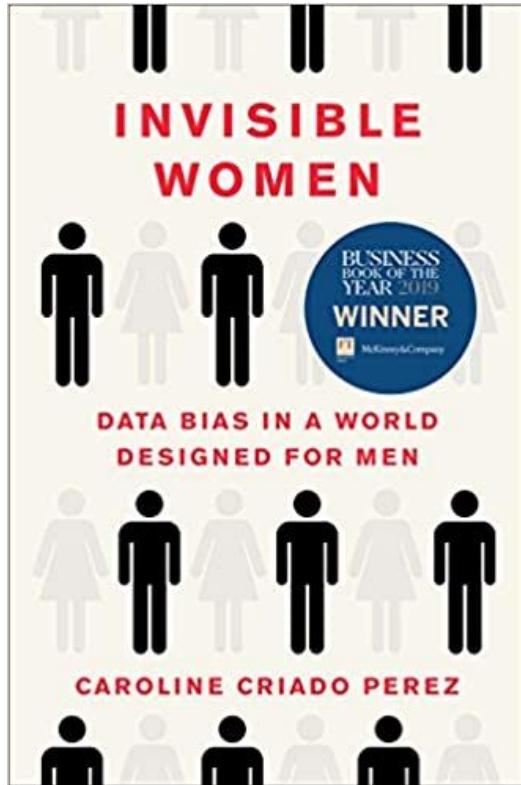
Tristan Harris, a former design ethicist at Google, as seen in "The Social Dilemma." Netflix, via Associated Press

A movie poster for "The Social Dilemma". The title is at the top left in large, stylized letters. Below it is a man with a blue face and red hair looking at a smartphone. A trail of fire or flames is coming out of the phone. The background is a textured yellow. A red diagonal line starts from the top left corner and goes down to the bottom right corner.

# /the social dilemma

“There are only two industries that call their customers ‘users’: illegal drugs and software.”

*Edward Tufte*





DeepFakes  
may  
ruin the  
word.



<https://github.com/AliaksandrSiarohin/first-order-model>

# Explainable Artificial Intelligence (XAI): Concepts, Taxonomies, Opportunities and Challenges toward Responsible AI

Alejandro Barredo Arrieta<sup>a</sup>, Natalia Díaz-Rodríguez<sup>b</sup>, Javier Del Ser<sup>a,c,d</sup>, Adrien Bennetot<sup>b,e,f</sup>, Siham Tabik<sup>g</sup>, Alberto Barbado<sup>h</sup>, Salvador García<sup>g</sup>, Sergio Gil-Lopez<sup>a</sup>, Daniel Molina<sup>g</sup>, Richard Benjamins<sup>h</sup>, Raja Chatila<sup>f</sup>, and Francisco Herrera<sup>g</sup>

<sup>a</sup>TECNALIA, 48160 Derio, Spain

<sup>b</sup>ENSTA, Institute Polytechnique Paris and INRIA Flowers Team, Palaiseau, France

<sup>c</sup>University of the Basque Country (UPV/EHU), 48013 Bilbao, Spain

<sup>d</sup>Basque Center for Applied Mathematics (BCAM), 48009 Bilbao, Bizkaia, Spain

<sup>e</sup>Segula Technologies, Parc d'activité de Pissaloup, Trappes, France

<sup>f</sup>Institut des Systèmes Intelligents et de Robotique, Sorbonne Université, France

<sup>g</sup>DaSCI Andalusian Institute of Data Science and Computational Intelligence, University of Granada, 18071 Granada, Spain

<sup>h</sup>Telefonica, 28050 Madrid, Spain

---

## Abstract

In the last few years, Artificial Intelligence (AI) has achieved a notable momentum that, if harnessed appropriately, may deliver the best of expectations over many application sectors across the field. For this to occur shortly in Machine Learning, the entire community stands in front of the barrier of explainability, an inherent problem of the latest techniques brought by sub-symbolism (e.g. ensembles or Deep Neural Networks) that were not present in the last hype of AI (namely, expert systems and rule based models). Paradigms underlying this problem fall within the so-called *explainable* AI (XAI) field, which is widely acknowledged as a crucial feature for the practical deployment of AI models. The overview presented in this article examines the existing literature and contributions already done in the field of XAI, including a prospect toward what is yet to be reached. For this purpose we summarize previous efforts made to define explainability in Machine Learning, establishing a novel definition of explainable Machine Learning that covers such prior conceptual propositions with a major focus on the audience for which the explainability is sought. Departing from this definition, we propose and discuss about a taxonomy of recent contributions related to the explainability of different Machine Learning models, including those aimed at explaining Deep Learning methods for which a second dedicated taxonomy is built and examined in detail. This critical literature analysis serves as the motivating background for a series of challenges faced by XAI, such as the integration of explainability in the software development life cycle. Our proposal also includes a set of recommendations for the future research agenda in XAI.



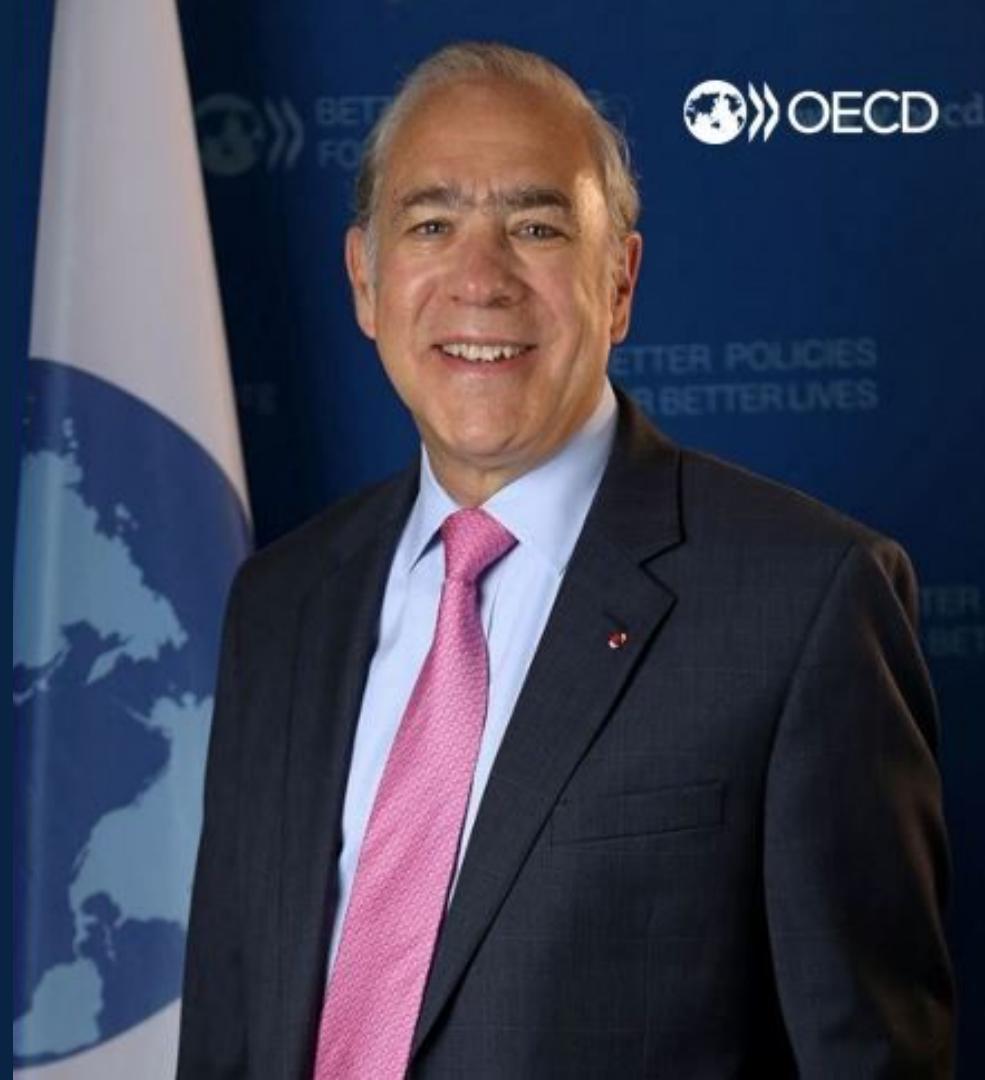


Where  
are we  
going?

## GLOBAL PARTNERSHIP ON Artificial Intelligence (GPAI)

"We welcome the launch of the GPAI, a new international and multistakeholder coalition grounded in the OECD AI Principles, and will be delighted to host its Secretariat."

Angel Gurría  
OECD Secretary-General

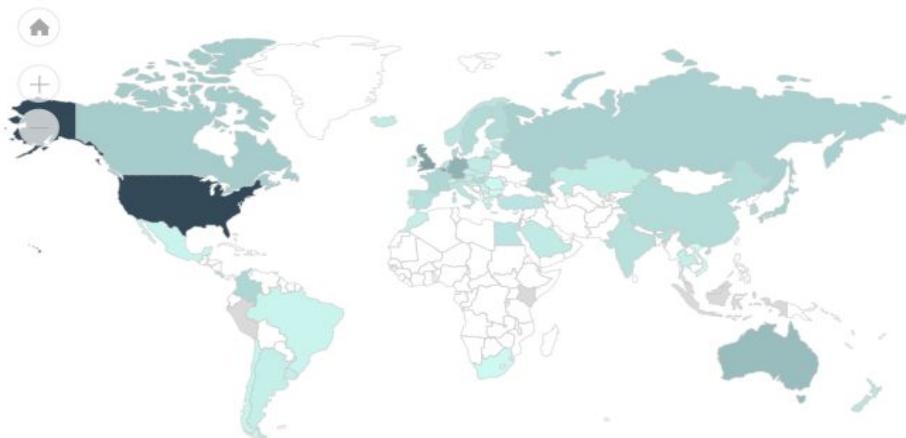


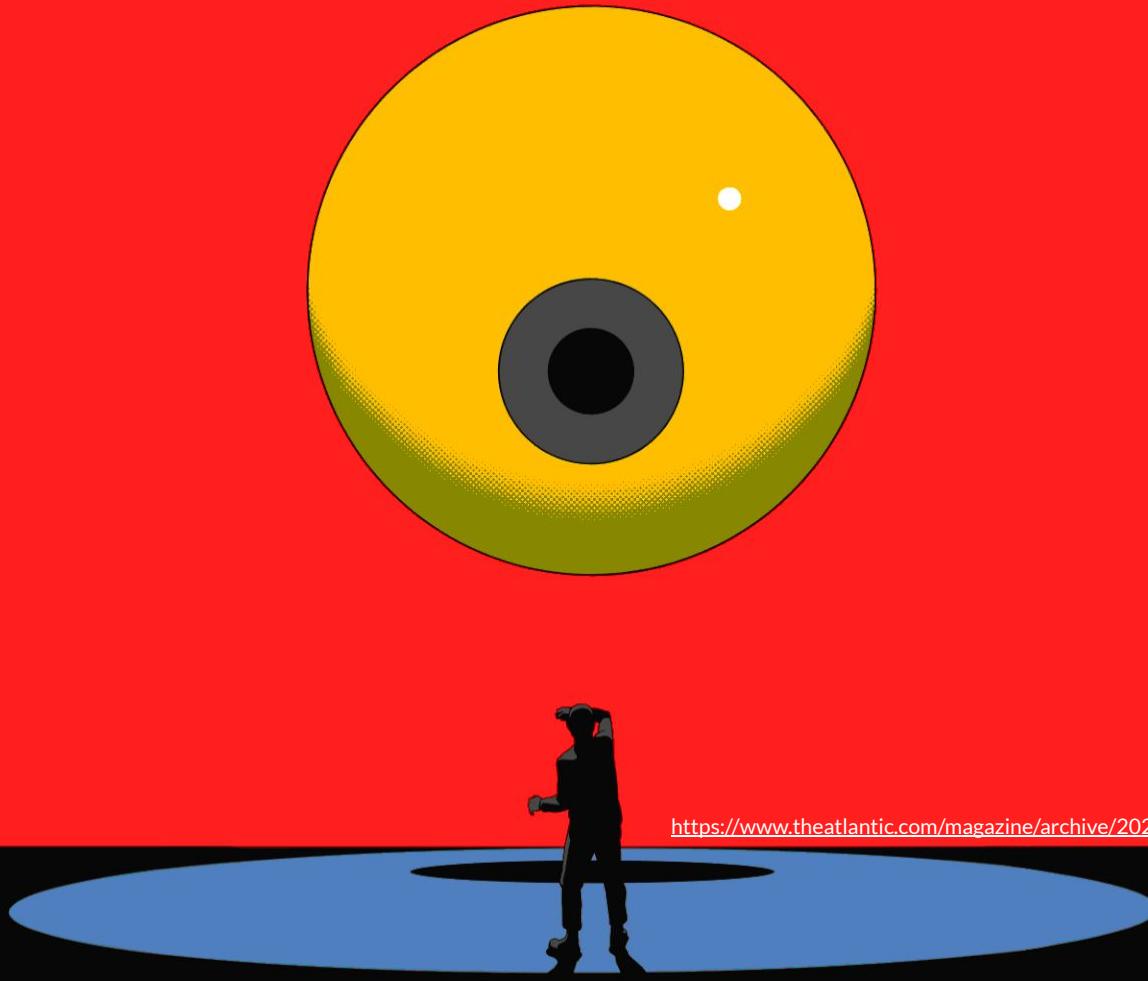
## National AI policies & strategies

This section provides a live repository of over 300 AI policy initiatives from 60 countries, territories and the EU. Click on a country / territory, a policy instrument or a group targeted by the policy.

[Countries & territories](#)[Policy instruments](#)[Target Groups](#)

Choose visualization

By initiative count 



<https://www.theatlantic.com/magazine/archive/2020/09/china-ai-surveillance/614197/>

# IGNORANCE

HOW IT DRIVES SCIENCE

STUART FIRESTEIN

“...that most people believe ignorance precedes knowledge, but in science, ignorance follows knowledge. Knowledge enables scientists to propose and pursue interesting questions about data that sometimes don't exist or fully make sense yet”.



# Papers With Code

<https://paperswithcode.com/>



### Semantic Segmentation

60 benchmarks

1077 papers with code



### Image Classification

149 benchmarks

905 papers with code



### Object Detection

87 benchmarks

763 papers with code



### Image Generation

108 benchmarks

382 papers with code



### Pose Estimation

86 benchmarks

349 papers with code



### Machine Translation

48 benchmarks

667 papers with code



### Language Modelling

14 benchmarks

654 papers with code



### Question Answering

55 benchmarks

604 papers with code



### Sentiment Analysis

37 benchmarks

421 papers with code



### Text Classification

63 benchmarks

257 papers with code



### Medical Image Segmentation

56 benchmarks

90 papers with code



### Drug Discovery

14 benchmarks

62 papers with code



### Lesion Segmentation

5 benchmarks

50 papers with code



### Brain Tumor Segmentation

7 benchmarks

30 papers with code



### Brain Segmentation

1 benchmark

24 papers with code



### Link Prediction

44 benchmarks

226 papers with code



### Node Classification

49 benchmarks

183 papers with code



### Graph Embedding

124 papers with code



### Graph Classification

45 benchmarks

110 papers with code



### Community Detection

12 benchmarks

73 papers with code



### Continuous Control

52 benchmarks

124 papers with code



### Atari Games

62 benchmarks

124 papers with code



### Starcraft

34 papers with code



### Real-Time Strategy Games

2 benchmarks

16 papers with code



### Starcraft II

2 benchmarks

15 papers with code



### Music Generation

26 papers with code



### Music Information Retrieval

17 papers with code



### Music Source Separation

1 benchmark

14 papers with code



### Music Modeling

2 benchmarks

13 papers with code



### Music Auto-Tagging

6 papers with code

# A new pipeline for research



MENU ▾

nature

Subscribe



Search



Login

CAREER COLUMN · 08 FEBRUARY 2019

# How to use Twitter to further your research career

1

The social-media platform is often a tool for procrastination, says Jet-Sing M. Lee.  
But what else can it be?

Jet-Sing M. Lee



 All fields [Help](#) | [Advanced Search](#)

arXiv is a free distribution service and an open-access archive for 1,760,661 scholarly articles in the fields of physics, mathematics, computer science, quantitative biology, quantitative finance, statistics, electrical engineering and systems science, and economics. Materials on this site are not peer-reviewed by arXiv.

**Subject search and browse:**   **News**

See cumulative "What's New" pages. Read [robots beware](#) before attempting any automated download

## Physics

- [Astrophysics \(astro-ph new, recent, search\)](#)  
includes: [Astrophysics of Galaxies](#); [Cosmology and Nongalactic Astrophysics](#); [Earth and Planetary Astrophysics](#); [High Energy Astrophysical Phenomena](#); [Instrumentation and Methods for Astrophysics](#); [Solar and Stellar Astrophysics](#)
- [Condensed Matter \(cond-mat new, recent, search\)](#)  
includes: [Disordered Systems and Neural Networks](#); [Materials Science](#); [Mesoscale and Nanoscale Physics](#); [Other Condensed Matter](#); [Quantum Gases](#); [Soft Condensed Matter](#); [Statistical Mechanics](#); [Strongly Correlated Electrons](#); [Superconductivity](#)
- [General Relativity and Quantum Cosmology \(gr-qc new, recent, search\)](#)
- [High Energy Physics - Experiment \(hep-ex new, recent, search\)](#)
- [High Energy Physics - Lattice \(hep-lat new, recent, search\)](#)
- [High Energy Physics - Phenomenology \(hep-ph new, recent, search\)](#)
- [High Energy Physics - Theory \(hep-th new, recent, search\)](#)
- [Mathematical Physics \(math-ph new, recent, search\)](#)
- [Nonlinear Sciences \(nlin new, recent, search\)](#)  
includes: [Adaptation and Self-Organizing Systems](#); [Cellular Automata and Lattice Gases](#); [Chaotic Dynamics](#); [Exactly Solvable and Integrable Systems](#); [Pattern Formation and Solitons](#)
- [Nuclear Experiment \(nucl-ex new, recent, search\)](#)
- [Nuclear Theory \(nucl-th new, recent, search\)](#)
- [Physics \(physics new, recent, search\)](#)  
includes: [Accelerator Physics](#); [Applied Physics](#); [Atmospheric and Oceanic Physics](#); [Atomic and Molecular Clusters](#); [Atomic Physics](#); [Biological Physics](#); [Chemical Physics](#); [Classical Physics](#); [Computational Physics](#); [Data Analysis, Statistics and Probability](#); [Fluid Dynamics](#); [General Physics](#); [Geophysics](#); [History and Philosophy of Physics](#); [Instrumentation and Detectors](#); [Medical Physics](#); [Optics](#); [Physics and Society](#); [Physics Education](#); [Plasma Physics](#)





ISSN: 2352-3409

# Data in Brief

Editors-in-Chief: Hao-Ran Wang, Ganhui Lan

> View Editorial Board

> CiteScore: 1.5 

Submit Your Paper



Open Access

View Articles

Guide for Authors



Abstracting/ Indexing

Track Your Paper



Journal Metrics

*Data in Brief* provides a way for researchers to easily share and reuse each other's datasets by publishing data articles that:

- Thoroughly describe your data, facilitating reproducibility.
- Make your data, which is often buried in supplementary material, easier to find.
- Increase traffic towards associated...

[Read more](#)

[Recent Articles](#) [Most Cited](#) [Special Issues](#)

Data describing child development at 6 years after maternal cancer diagnosis and treatment during pregnancy - [Open access](#)

Mathilde van Gerwena | Tineke Vandenbroucke | ...

Meta-analysis dataset comparing orthodontic mini-implants and conventional

3



What?  
How?  
Which?  
Change?  
Next?

#sponsors  
#institutions  
#researchers

master		1 branch	0 tags	Go to file	Add file	Code
	mribeirodantas	Updates raw datasets 26 Aug 2020	2ddb473	16 days ago	45 commits	
	.dvc	Updates preprocess pipeline with several changes		5 months ago		
	data	Updates raw datasets 26 Aug 2020		16 days ago		
	documentation/UN Data	Starts tracking with git the PDF documentation files		4 months ago		
	extra	Fix locality name varialbe		4 months ago		
	scripts	Updates raw datasets 26 Aug 2020		16 days ago		
	.gitignore	Starts tracking with git the PDF documentation files		4 months ago		
	DIB.Rproj	Adds R Project file		5 months ago		
	README.md	Updates README with paper information		4 months ago		
	generate_dictionary_file.dvc	Updates dictionary generation pipeline		4 months ago		
	generate_single_UN_dataset.dvc	Updates raw datasets 26 Aug 2020		16 days ago		
	preprocess.dvc	Updates raw datasets 26 Aug 2020		16 days ago		
	update_datasets.dvc	Updates raw datasets 26 Aug 2020		16 days ago		

README.md

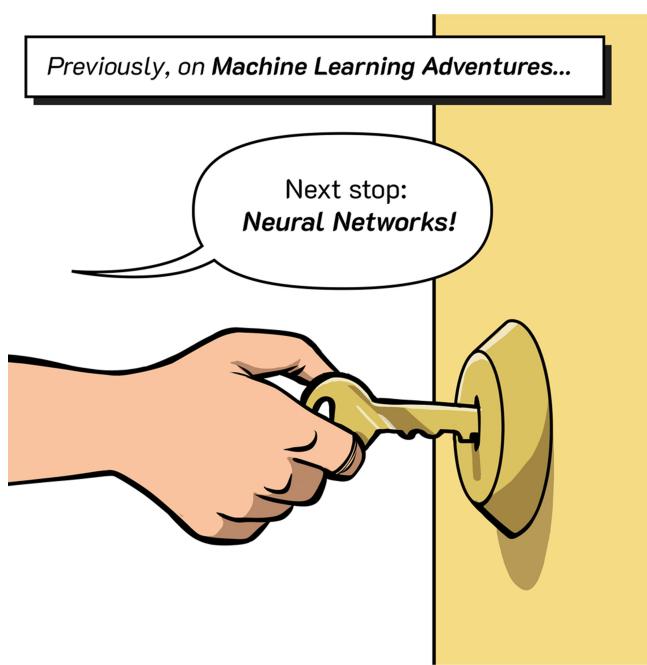
## How to work with this repository

## Paper published in Data in Brief

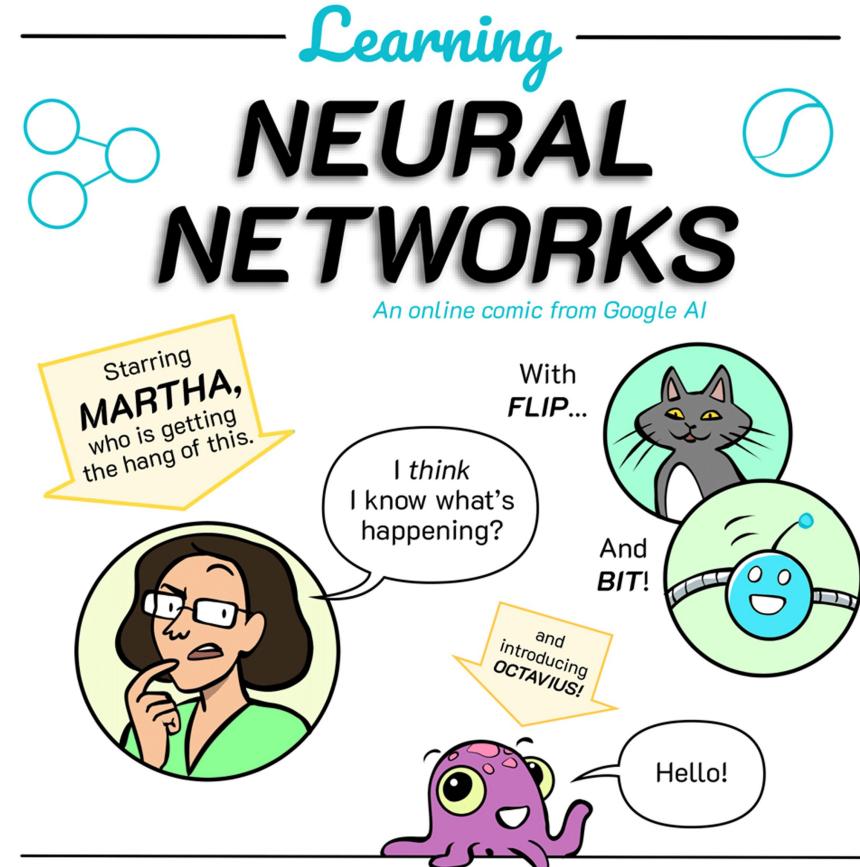
Originally, this is the repository for the publication "Dataset for country profile and mobility analysis in the assessment

#reproducibility  
#assesible

# References

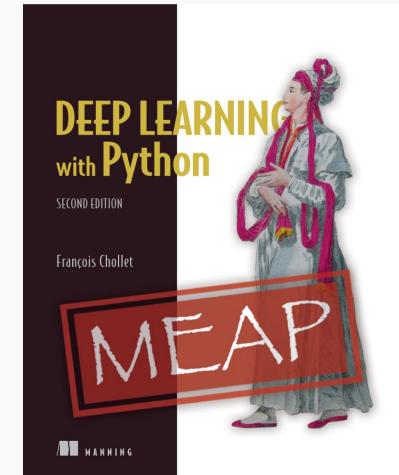
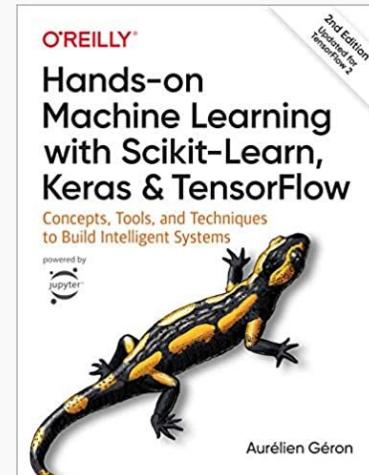
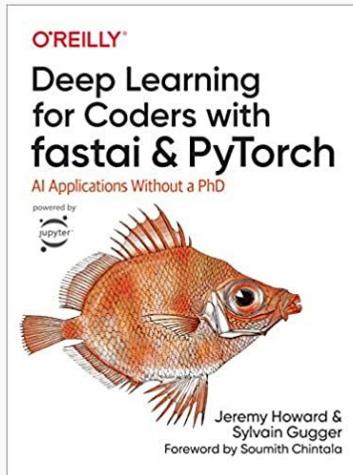
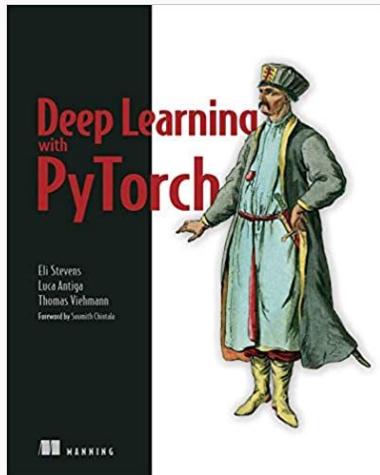


<https://cloud.google.com/products/ai/ml-comic-1>



<https://cloud.google.com/products/ai/ml-comic-2>

# References





**Andrew Trask** @iamtrask · 47m

Googling Tip: when you want to learn some ML concept, google "python <concept name> from scratch".

This will often lead to a blogpost with:

- intuitive explanation
- a toy implementation
- reference to more formal papers

which you can unpack in that order :)

#100DaysOfMLCode

3

21

182

↑ ↴



Next ....

<https://www.imd.ufrn.br/>

[https://github.com/ivanovitchm/m  
achinelearning2020.2](https://github.com/ivanovitchm/machinelearning2020.2)