



NE 4.0

Inteligência Artificial

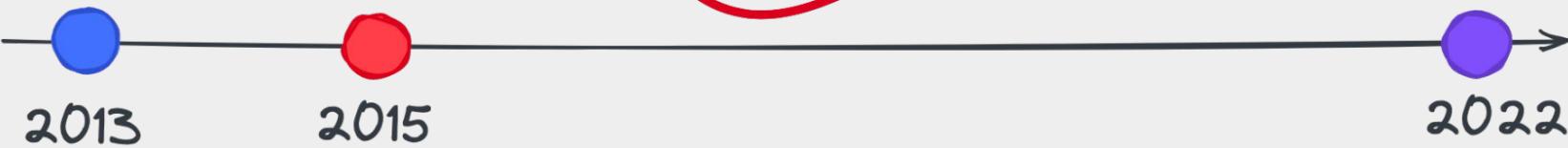
Ivanovitch Silva
ivanovitch.silva@ufrn.br



ivanovitch.silva@ufrn.br



@ivanovitchm

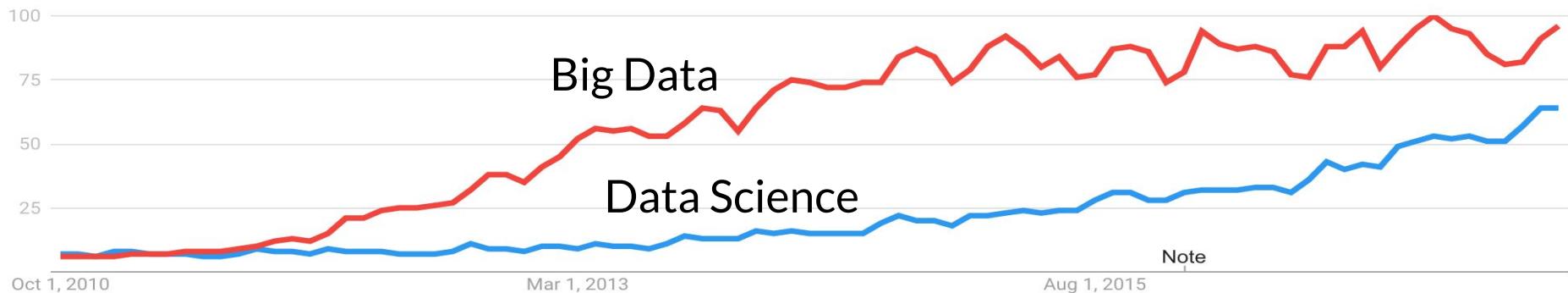


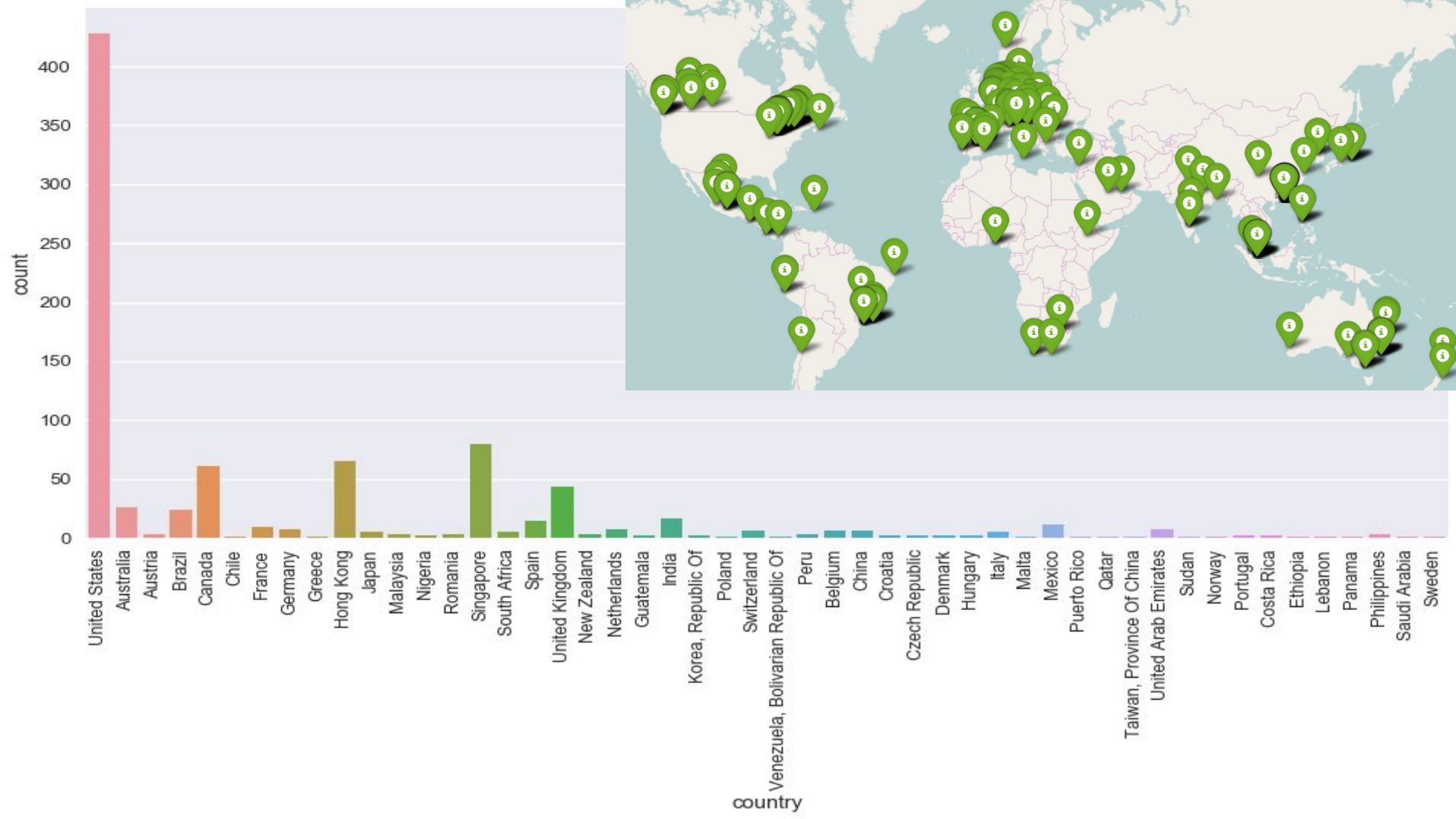
Big Data and Social Analytics certificate course

2017 DATES TO BE CONFIRMED

[DOWNLOAD COURSE PROSPECTUS](#)

Discover a new way to think about big data analysis when you explore the theory behind "social analytics", and practically apply that knowledge as you learn pioneering data analytics techniques from the creators of those very tools and methods.





<https://github.com/ivanovitchm>



Ivanovitch Silva

ivanovitchm

I'm an experimenter by design, and very interested in technologies related to Data Science & Machine Learning, Vehicles and Complex Networks.

Edit profile

Overview

Repositories 54

Projects

Packages

Stars 124

Popular repositories

Customize your pins

mlops

Public

Repository for DCA0305, an undergraduate course about Machine Learning Workflows and Pipelines

• Jupyter Notebook ⭐ 63 📈 11

mlops_nd_c3

Public

A MLOps workflow to classify incomes based on publicly available Census Bureau data.

• Jupyter Notebook ⭐ 33 📈 3

imd0033_2019_1

Public

Repositório da disciplina IMD0033 - Probabilidade 2019.2

• Jupyter Notebook ⭐ 30 📈 8

ppgeecmachinelearning

Public

Repository for EEC1509, a graduate course on PPgEEC about Machine Learning

• Jupyter Notebook ⭐ 24 📈 10

datascience2020.6

Public

network_analysis_2021

Public

ABUNDÂNCIA DO CONHECIMENTO



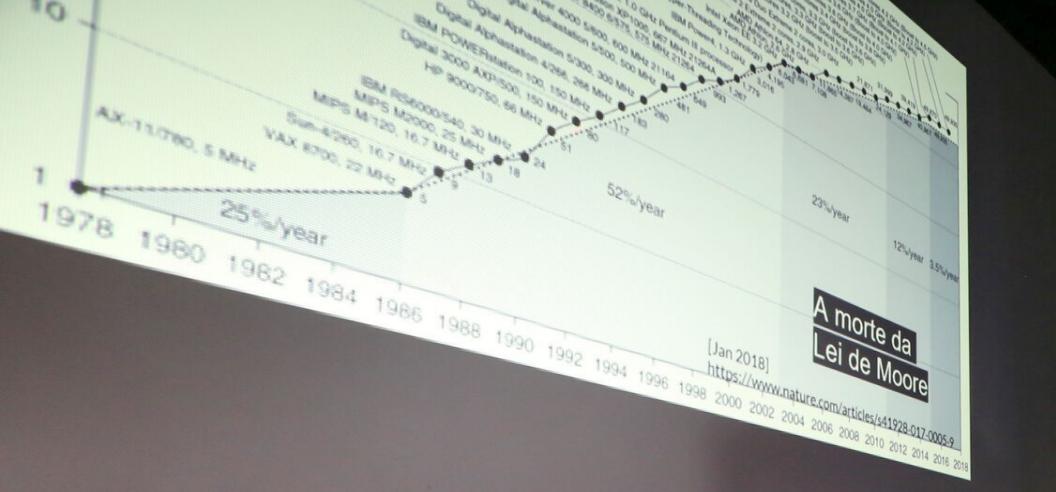
2016/2017 - Especialização em Big Data

Graduação

- 2017.1 - IMD0105 Introduction to Data Science
 - 2017.2 - IMD0252 Learning Analytics
 - 2017.2 - DCA0046 Data Science
 - 2018.1 - DCA0132 Data Engineering
 - 2018.2 - IMD0905 Data Science I
 - 2018.2 - DCA0131 Data Science
 - 2019/2020 - PES (minnors)
- ...

Pós-Graduação

- 2017.2 - EEC2006 Data Science Foundations
 - 2017.2 - ITE0021 Learning Analytics
 - 2018.2 - EEC1509 Machine Learning
 - 2019.1 - Evolving System
-



serendipidade

Significado de Serendipidade

substantivo feminino

Ato ou capacidade de descobrir coisas boas por mero acaso, sem previsão.

Circunstância interessante ou agradável que ocorre sem aviso, inesperadamente; casualidade feliz; eventualidade: encontrar meu irmão depois de 30 anos foi pura serendipidade.

Aquilo que acontece ou é descoberto por acaso, de modo imprevisto, inesperado.

Etimologia (origem da palavra **serendipidade**). Do inglês serendipity 'ato de descobrir coisas boas por acaso'.

Sinônimos de Serendipidade

Serendipidade é sinônimo de: [casualidade](#), [eventualidade](#)

<https://www.dicio.com.br/serendipidade>

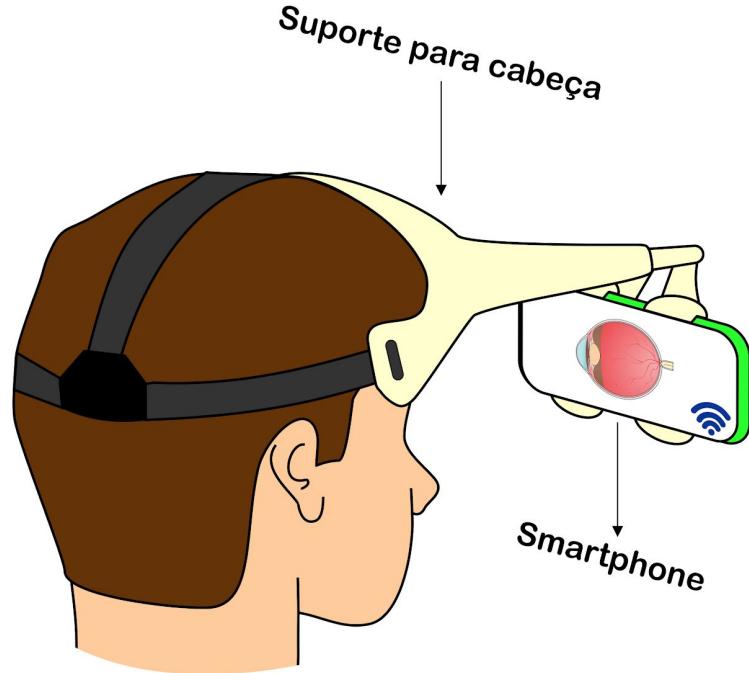
Evento de acolhimento



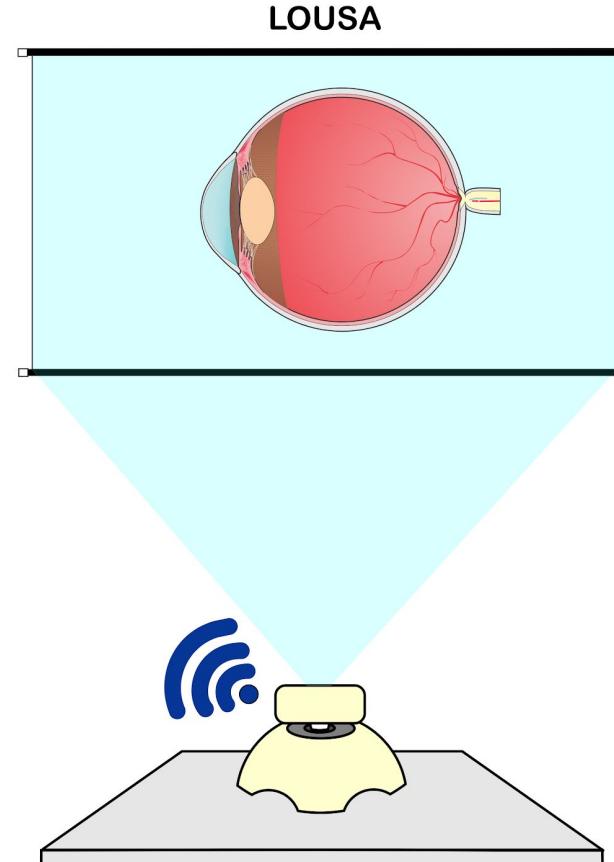




OnIZ

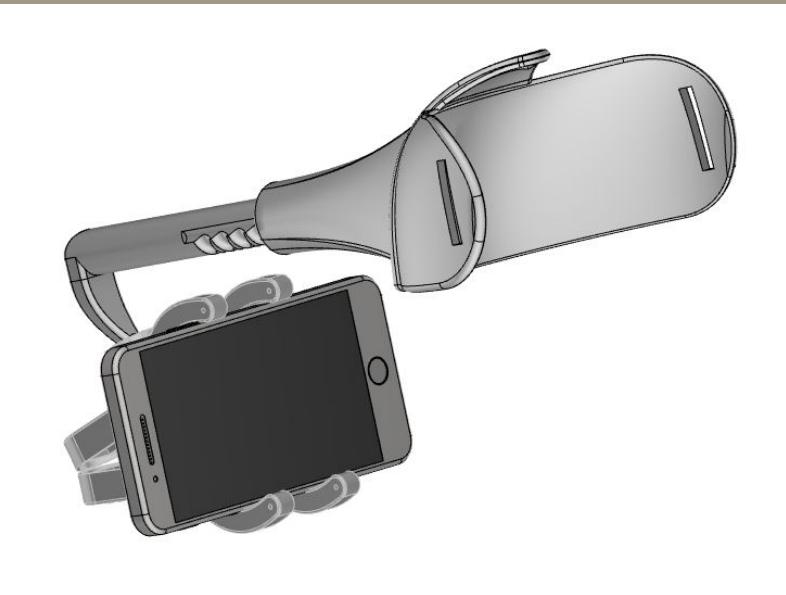


usuário



LOUSA

Módulo transmissor de imagem
(com Wi-Fi dedicado)



Protótipo Zero



OnIZ



natalmakers





On_{iz}

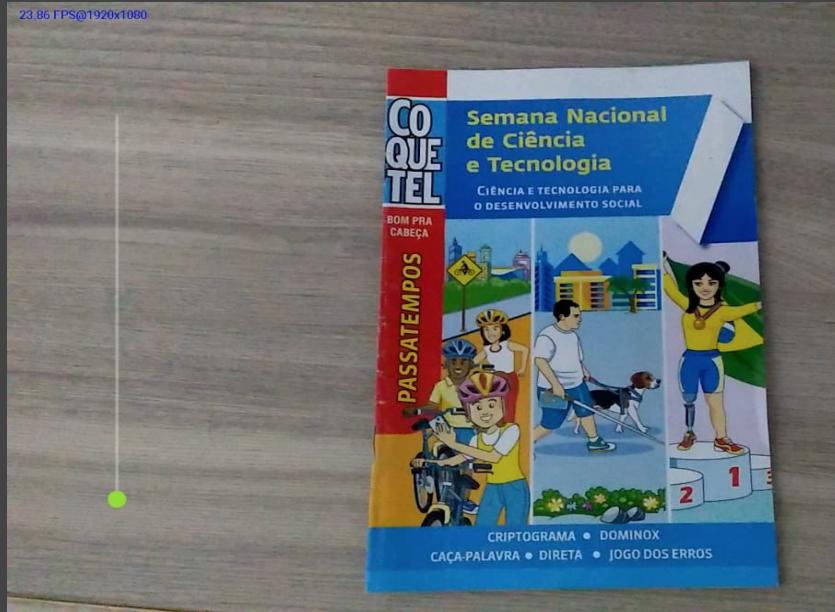
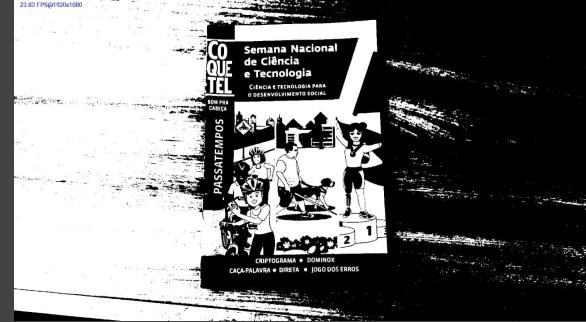
CHOOSE A CAMERA



External Camera



Back Camera



No Filter

Night Vision

Inverted Night Vision

Negative

Infra Red

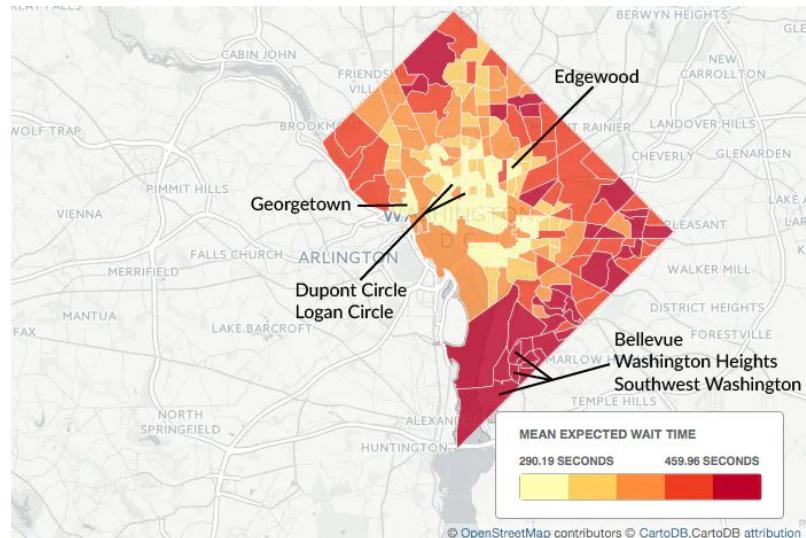
Gray Scale

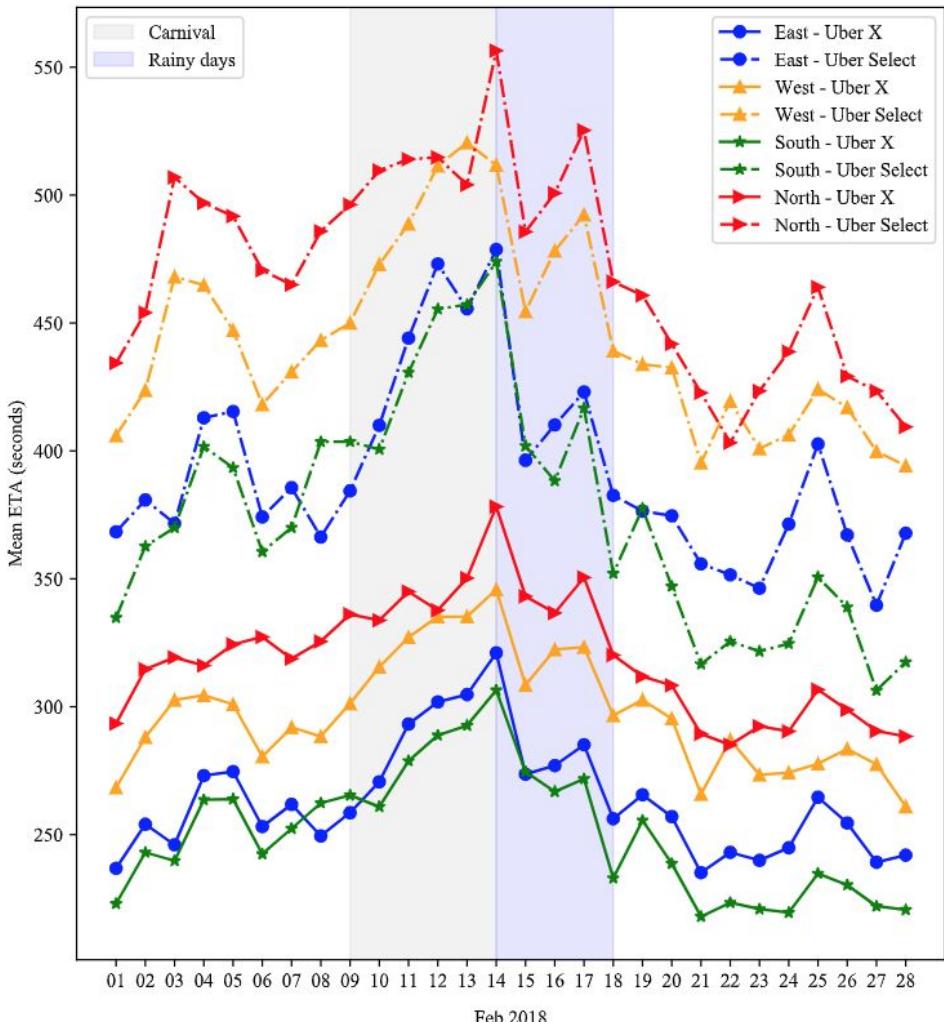
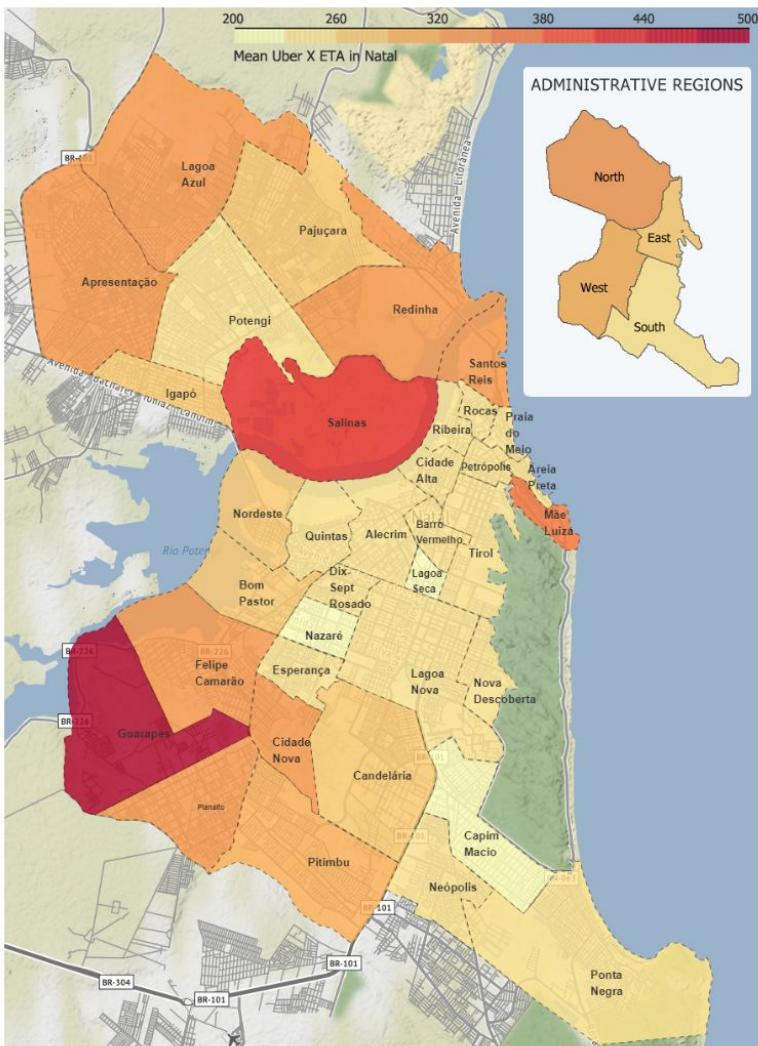


The Washington Post

Economic Policy

Uber seems to offer better service in areas with more white people. That raises some tough questions.





Universidade Federal do Rio Grande do Norte / BDTD - Biblioteca Digital de Teses e Dissertações
/ Programa de Pós-Graduação em Engenharia Elétrica e de Computação / PPGEE - Mestrado em Engenharia Elétrica e de Computação

Please use this identifier to cite or link to this item: <https://repositorio.ufrn.br/handle/123456789/28706>

Title: Uma abordagem orientada a dados para a criação de um indicador de habitabilidade baseado na API da UBER

Authors: Oliveira, Gislany Lillian Alves de

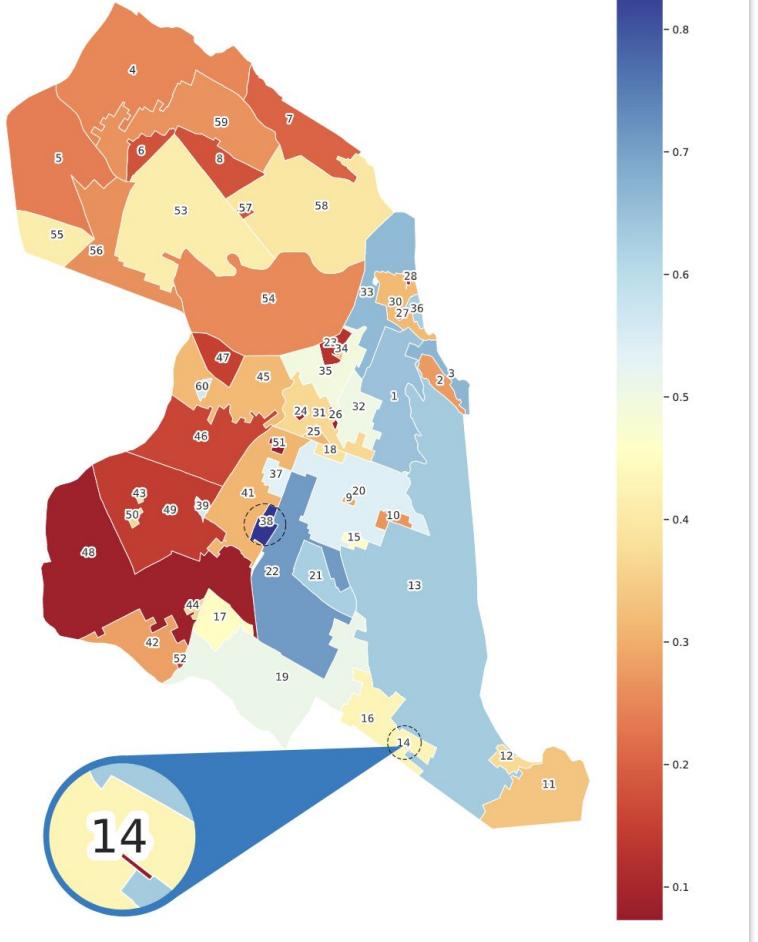
Advisor: Silva, Ivanovitch Medeiros Dantas da

Keywords: Ciência de dados;Uber;Indicadores de habitabilidade;Urbanização;Desenvolvimento urbano sustentável

Issue Date: 24-Jan-2020

Citation: OLIVEIRA, Gislany Lillian Alves de. Uma abordagem orientada a dados para a criação de um indicador de habitabilidade baseado na API da UBER. 2020. 156f. Dissertação (Mestrado em Engenharia Elétrica e de Computação) - Centro de Tecnologia, Universidade Federal do Rio Grande do Norte, Natal, 2020.

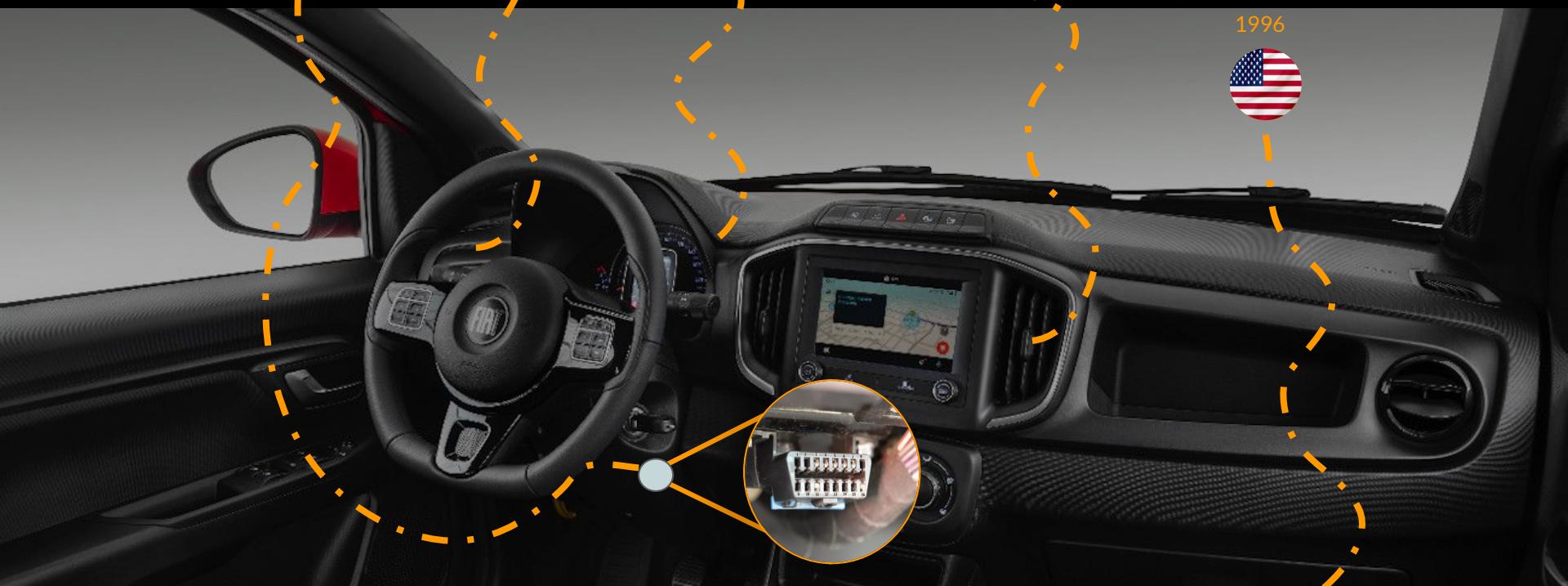
Portuguese Abstract: Um dos dilemas globais refere-se à acelerada transição urbana vivida nas últimas décadas. Por isso, é de suma importância a promoção de um desenvolvimento urbano sustentável para acomodar esse crescimento populacional. Nesse sentido, surge o conceito de habitabilidade, um princípio que combina atributos econômicos, sociais e ambientais a fim de promover a qualidade de vida e o bem-estar, e que é amplamente tratado na Nova Agenda Urbana (NAU) adotada pela Organização das Nações Unidas (ONU) em 2016. A NAU define políticas para promover a consolidação dos Objetivos de Desenvolvimento Sustentável (ODS), particularmente o Objetivo 11, focado em um futuro pró-urbano. Para efetivar tais objetivos é preciso acompanhar o andamento da sua implementação através de indicadores, contexto em que a habitabilidade pode se enquadrar como um indicador para esse propósito. Todavia, há um impasse relacionado à indisponibilidade, má qualidade e agregação dos dados existentes, dificultando esse monitoramento. Nesse cenário, este trabalho propõe a criação de um indicador de habitabilidade que, além dos dados tradicionais dos censos e de outros estudos oficiais, também utilize fontes de dados alternativas, como as disponibilizadas pela Uber, um serviço popular de viagens. Presumindo que o comportamento do serviço da Uber possa refletir a dimensão da habitabilidade, uma abordagem orientada à dados

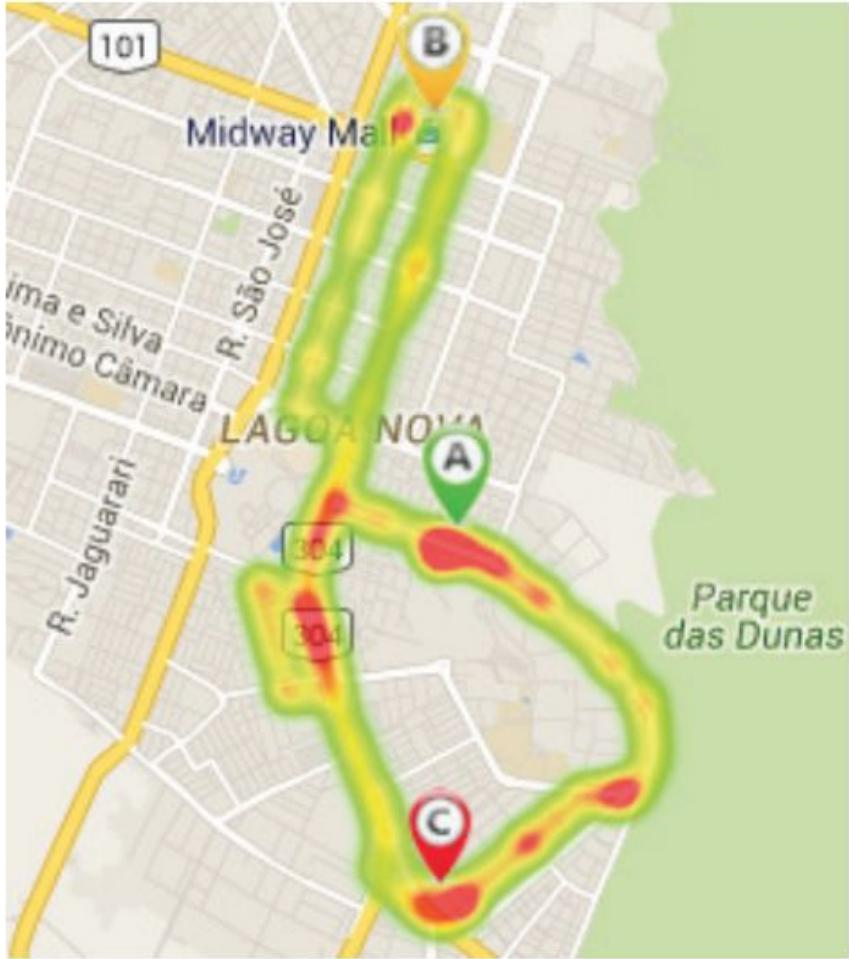


Indicador de Habitabilidade



On-Boarding Diagnostics (OBD-II)



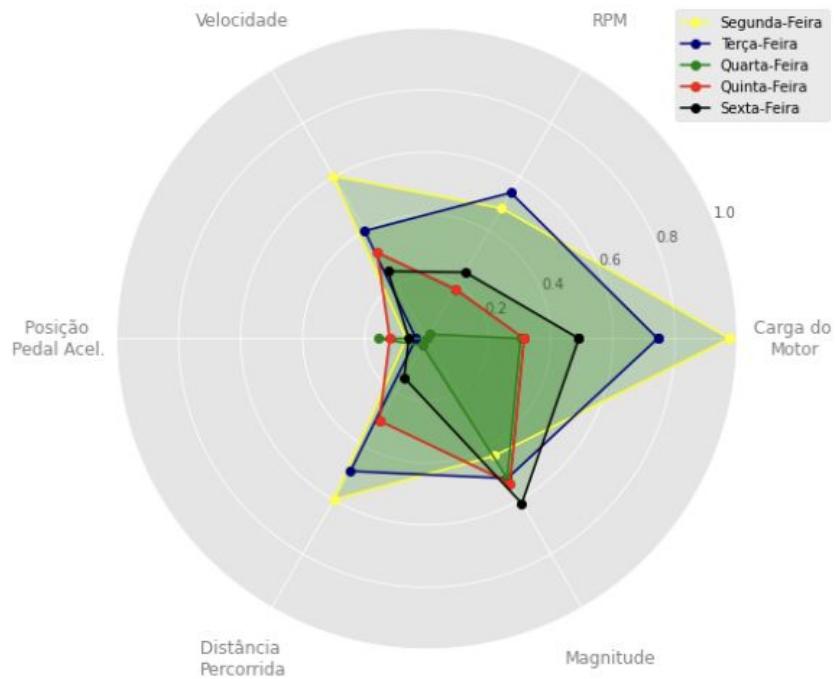
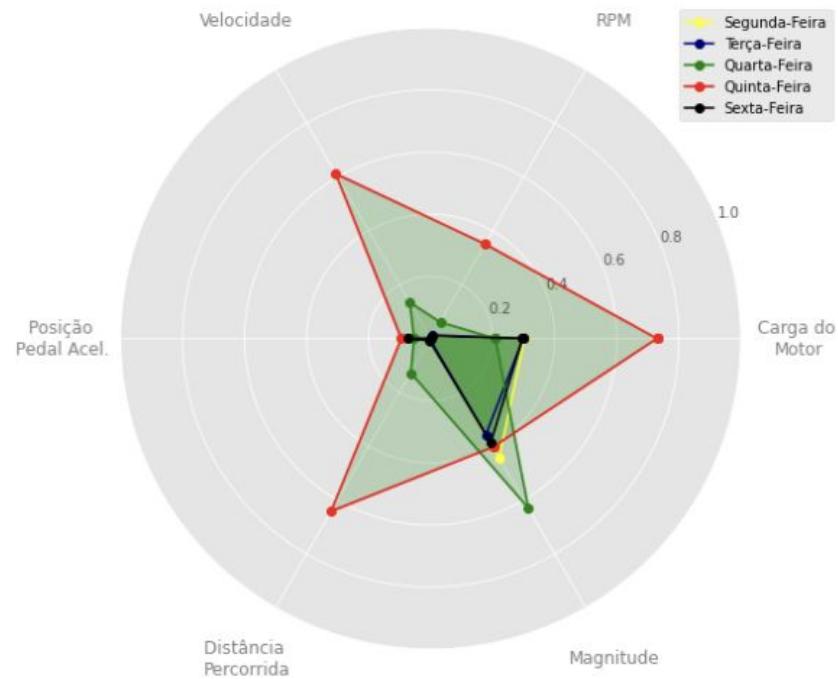


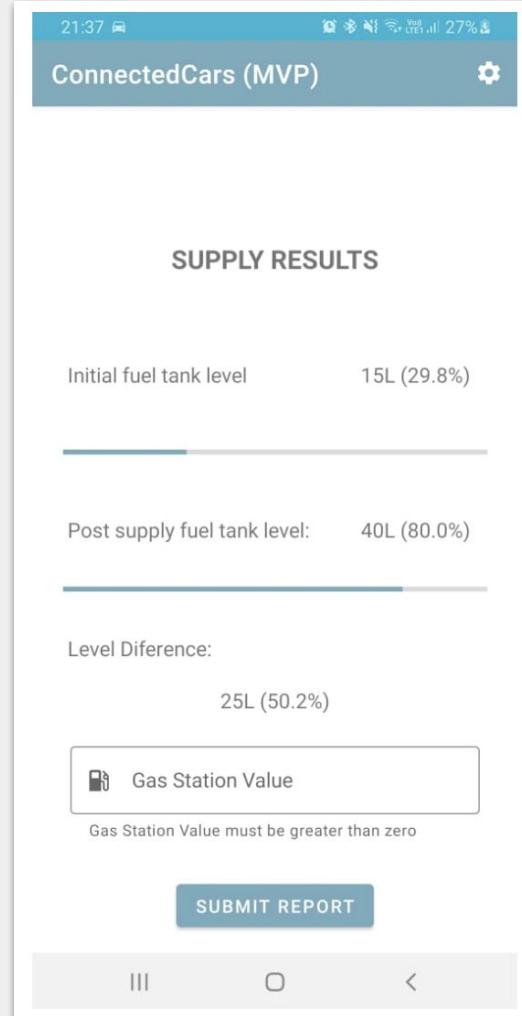
$$AFR = \frac{MAF(g/s)}{Fuel(g/s)}, \quad Fuel(g/s) = \frac{MAF(g/s)}{AFR}$$

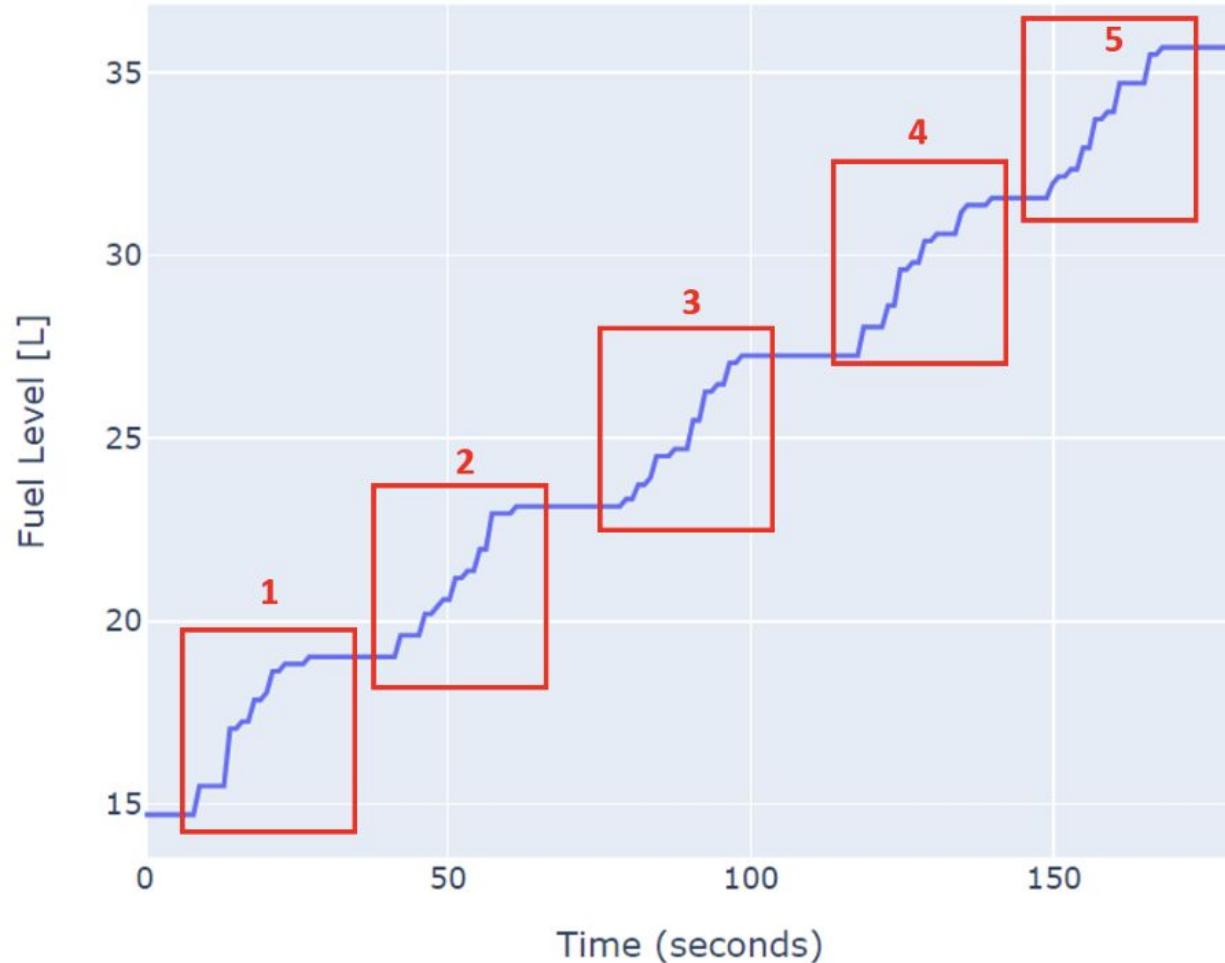
$$V_{fuel}(L/s) = \frac{Fuel(g/s)}{Density(g/L)}$$

$$CO_2(g/s) = V_{fuel} \cdot CO_2 PL$$

Path	Time	Duration	Samples	Distance	CO ₂
1. A → B	01/06 11:42h	10 min	574	4.5km	2303g
2. B → C	01/06 12:07h	10 min	564	5.1km	2440g
3. C → A	01/06 13:01h	5 min	261	3.34km	1387g
4. A → C	02/06 12:31h	6 min	336	3.2km	1849g
5. C → A	02/06 13:18h	8 min	479	4.88km	2558g
Total		39 min	2214	21.59km	10537g





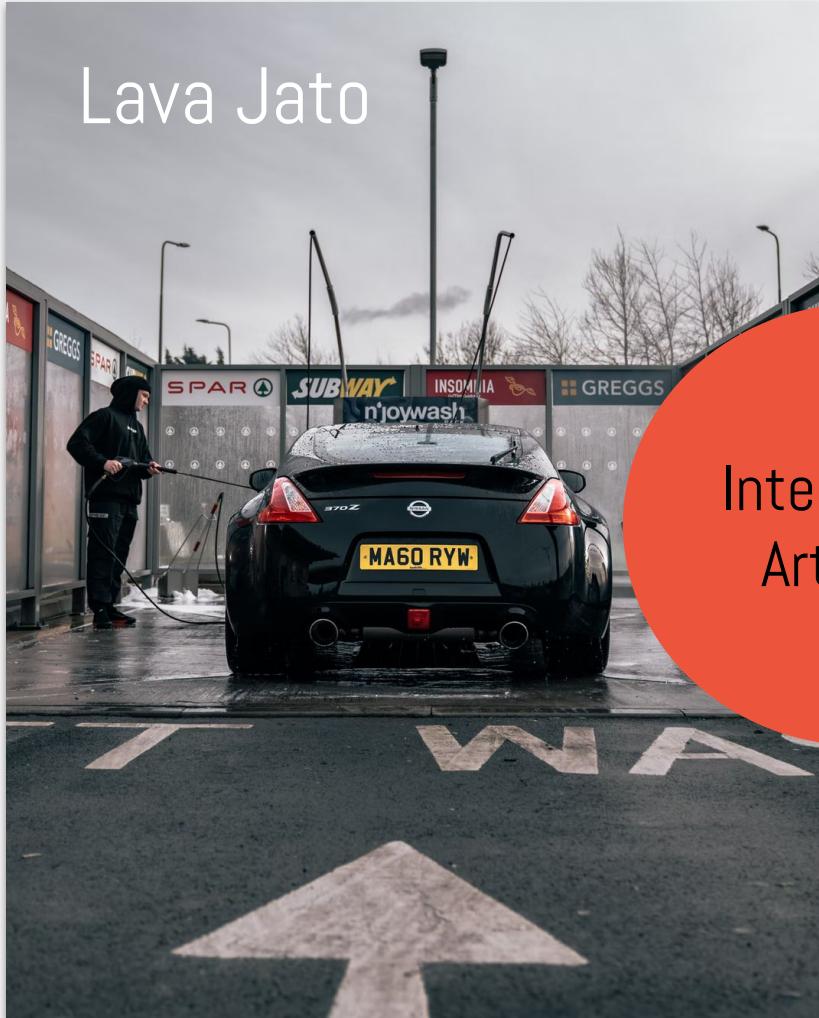


E se (...)



Combina
tividade

Lava Jato



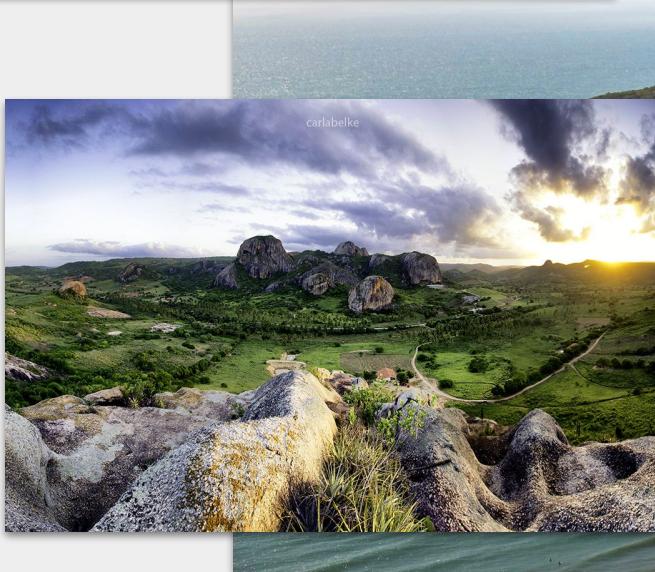
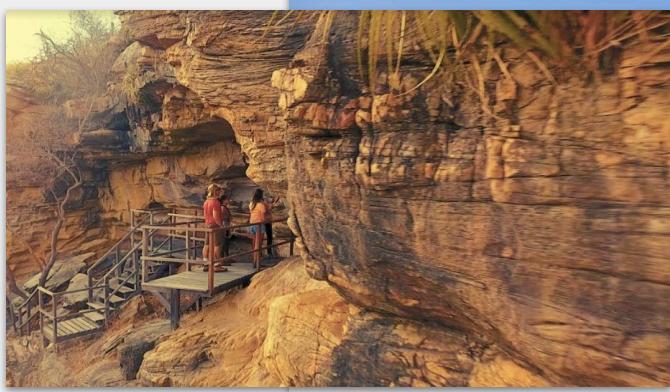
Salão de Beleza



Inteligência
Artificial

Qual **PERGUNTA** vocês não
estão fazendo sobre o seu
modelo de negócio e como a
Inteligência Artificial pode
ajudar a resolver a solução
dessa pergunta?

Vocações





Com a Pandemia, os países aceleraram uma dupla transição, a verde e a digital, na corrida para o desenvolvimento de suas vocações.

e-Buggy: turismo ecológico e sustentável a partir da eletrificação de veículos leves





**Motores precisam ser refeitos
Poluição sonora
Poluição das emissões e derivados
Imagen do turismo sustentável**



MONTE O
SEU
COMPASS

1.Versão

2.Cor

3.Resumo

3.
RESUMO**TOTAL**

Valor do carro	R\$ 349.990,00
Cor	+ R\$ 0,00
Kit opcionais	+ R\$ 0,00
Acessórios*	+ R\$ 0,00
Pacotes de serviços Mopar	+ R\$ 0,00

VALOR TOTAL R\$ 349.990,00**ITENS SELECIONADOS**[Alterar](#)**JEEP COMPASS**

R\$ 349.990,00

COMPASS SERIE S
4XE**GLACIER BICOLOR**

R\$ 0,00

[Itens de série](#)**CONCLUIR**Seu carro
COMPASS SERIE S 4XEValor Total
R\$ 349.990,00[Simular Financiamento](#)[Compartilhar](#)**VER
360°**

Gestão

Movida investe R\$ 100 milhões na compra 250 SUVs e furgões elétricos da BYD

A Movida, locadora de veículos, investe R\$ 100 milhões na compra de veículos elétricos da BYD. Empresa quer ter 20% da frota eletrificada até 2030

Início / Forbes Tech / Raízen e Plataforma Capital aportam R\$ 10 milhões na Tupinambá Energia

Raízen e Plataforma Capital aportam R\$ 10 milhões na Tupinambá Energia

Investimento na startup de mobilidade elétrica será destinado à expansão da estrutura brasileira.

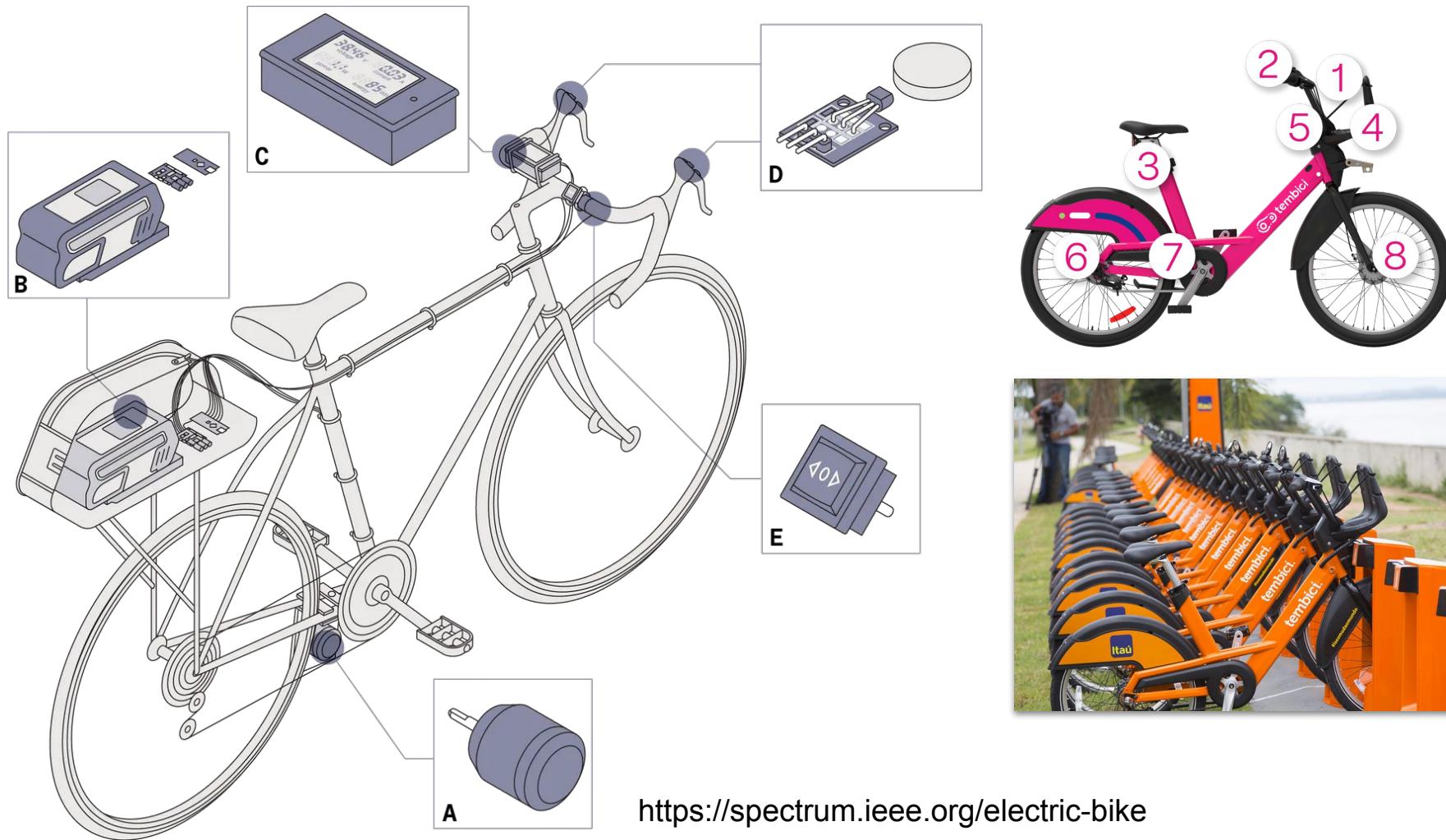
 Luiz Gustavo Pacete

27 de janeiro de 2022 Atualizado há 3 meses





<https://www.fastcompany.com/90730929/starbucks-wants-to-become-the-gas-station-of-the-future-for-evs>





Lime



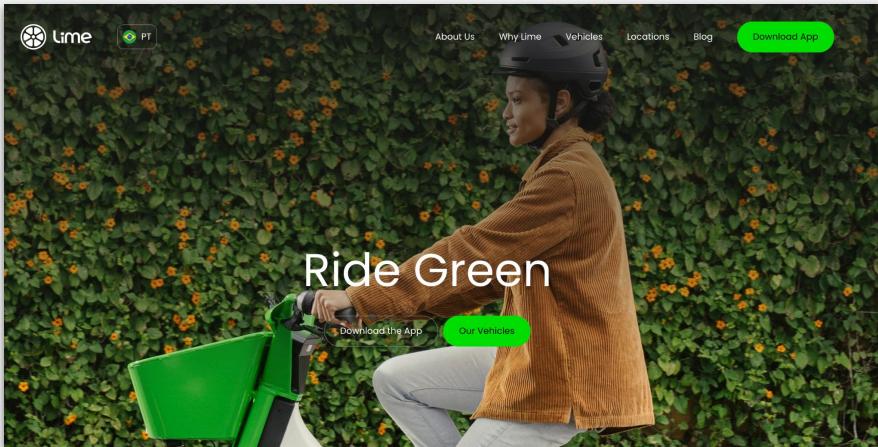
PT

About Us Why Lime Vehicles Locations Blog Download App

Ride Green

Download the App

Our Vehicles



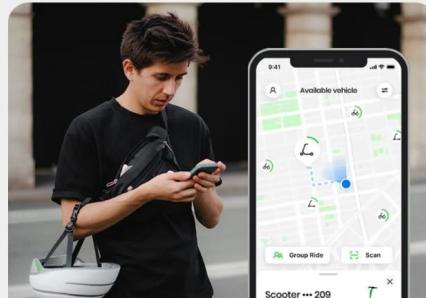
Electric Scooter



Electric Bike



<https://www.li.me/pt-br/>



Locate

Download the Lime app to find a vehicle.



Scan

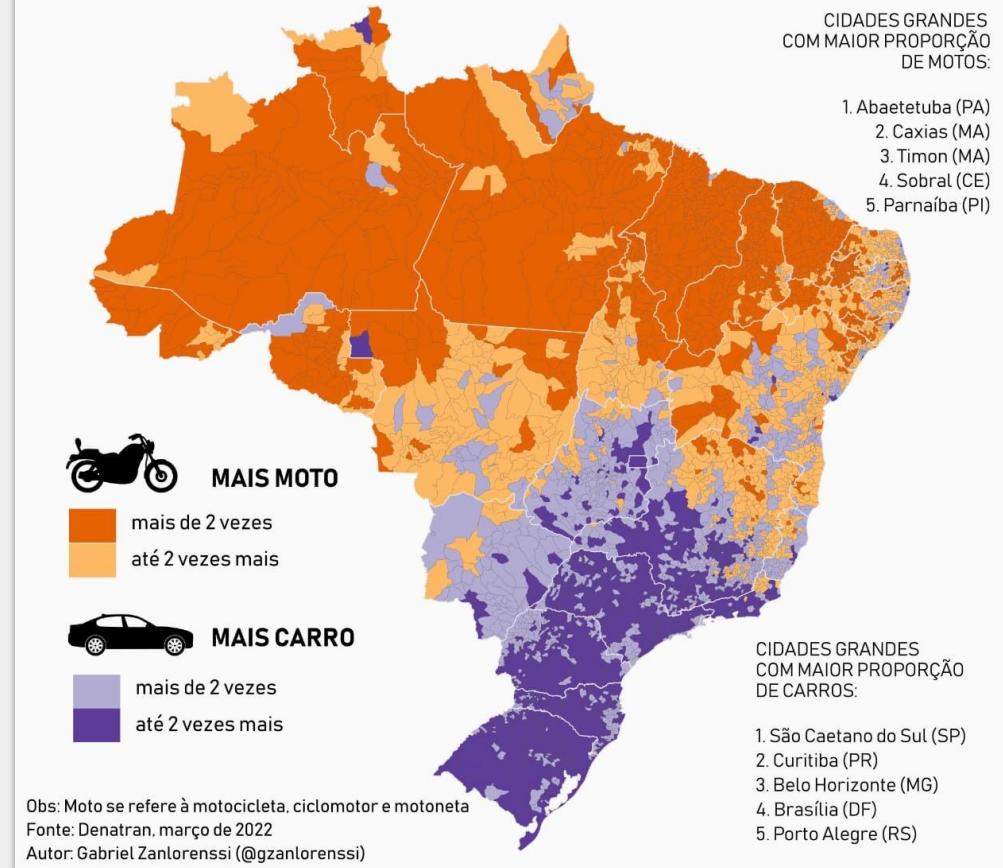
Scan the QR code on the vehicle to unlock. Learn how to ride safely in the app.



Ride

Follow all traffic rules, stick to the streets and bike lanes where legally permitted.

Moto ou carro: o que tem mais nos municípios brasileiros





**FROTA DE
MOTOCICLETAS,
MOTONETAS E
CICLOMOTORES
ELÉTRICOS**

2022: **1.588**
2019: **178**

Fonte: Ministério da Infraestrutura

Produtos

Vitória recebe uma nova opção de mobilidade. Descubra tudo sobre o Tuk-Tuk

29 de janeiro / Brasil

A photograph of a man driving an orange three-wheeled electric vehicle, commonly known as a Tuk-Tuk, on a city street. The vehicle has a white roof and a small window. The man is wearing a light-colored shirt and dark pants. In the background, there are other vehicles, trees, and a clear sky.

GRUPO | PRIMO



Thiago Lolkus Nigro · 2nd

CEO e Fundador do Grupo PRIMO

Talks about #finanças, #negócios, #tecnologia, #educação, and
#investimentos

Greater São Paulo Area · [Contact info](#)

510,967 followers



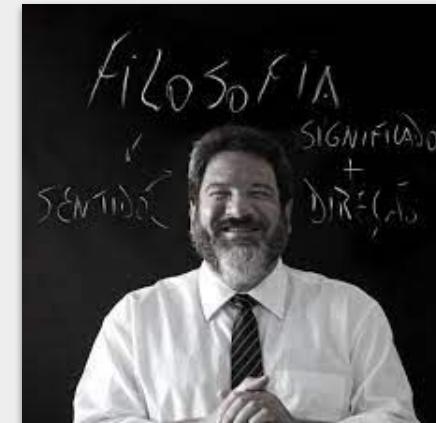
Grupo PRIMO



Capricho: fazer o seu melhor na condição que você tem, enquanto você não tem condições melhores para fazer melhor ainda.

Mediocridade: fazer o possível, ser mediano, mesmo tendo condições de fazer o melhor.

- 1) O DNA de uma empresa dificilmente se mantém ao longo do tempo - eles estão nas pessoas, e as pessoas mudam de emprego com o tempo.
- 2) É difícil não ser medíocre num ambiente que favorece a politicagem.





Quebra Gelo

<https://abre.ai/receba-ne40>

The background of the image is a blurred, colorful night cityscape. The scene is filled with streaks of light in various colors—blues, yellows, reds, and whites—representing motion blur from traffic and city lights. In the center, there's a dark rectangular overlay containing the text.

#desafio10anos



PLutão

April 4, 2022

10:34:25 AM
PM

1994





2002



2022

1996 - 2020

TOMB RAIDER



PS1

PS2

PS3

PS4

PS5

2010



2022



2018



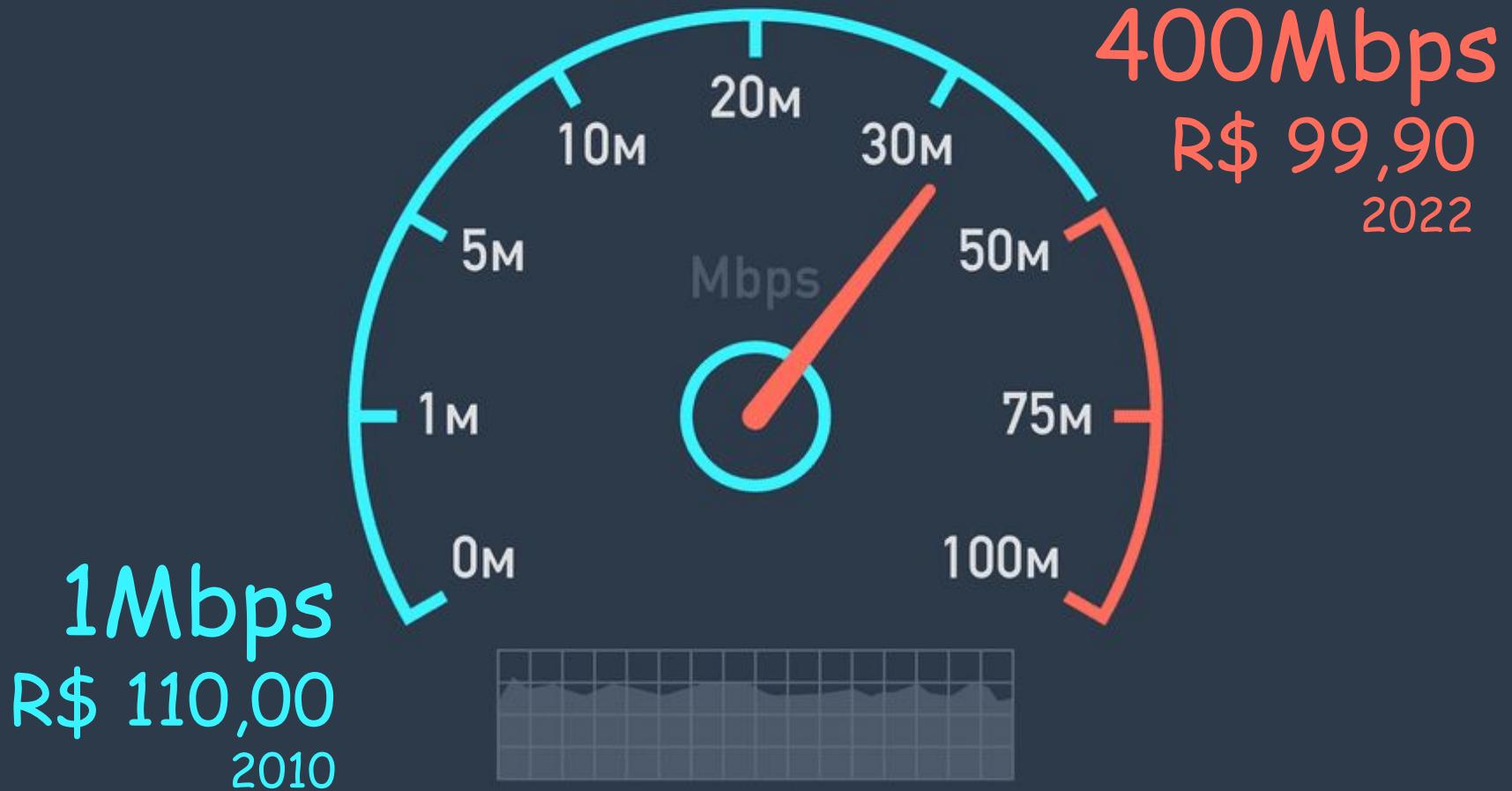


2010



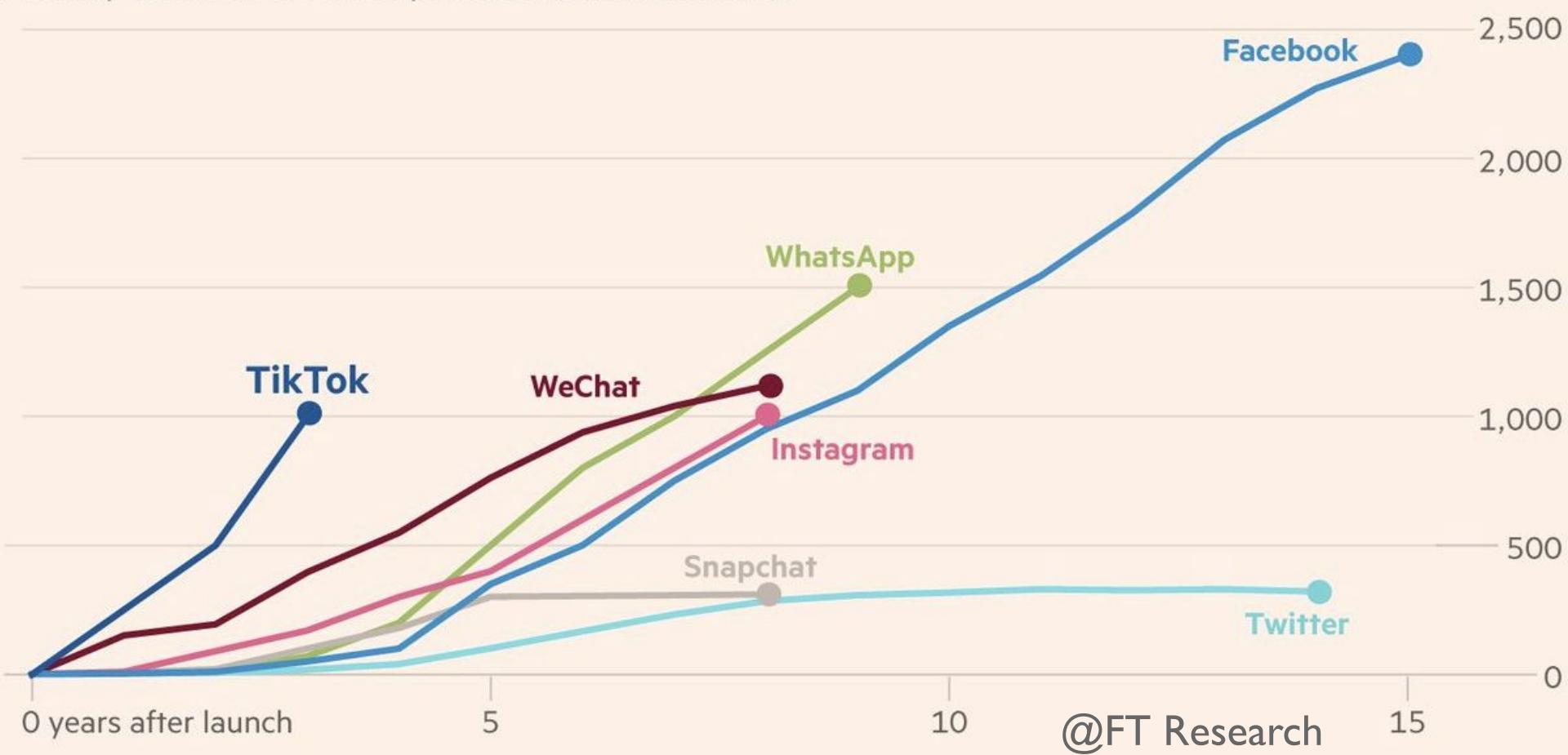
2022

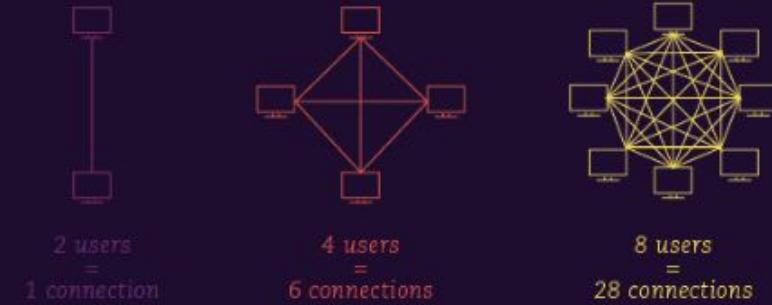
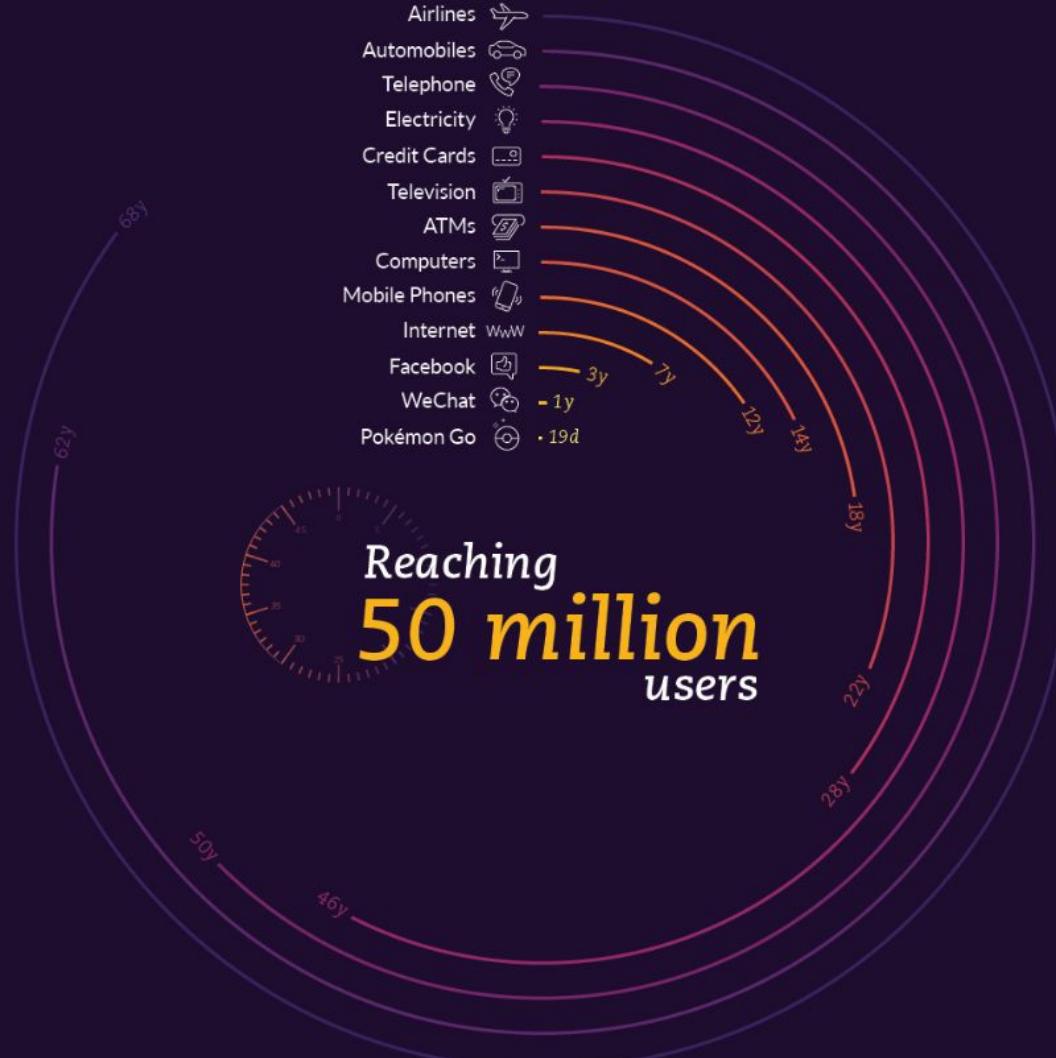




TikTok has reached 1bn users faster than any other social media app

Monthly active users since product launch (millions)





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

2020

73 dias

2010



3-5 anos

1980



7 anos

1950



EVOLUÇÃO do Conhecimento Médico



Discovering temporal scientometric knowledge in COVID-19 scholarly production

Breno Santana Santos^{1,2} · Ivanovitch Silva¹ · Luciana Lima³ ·
Patricia Takako Endo⁴ · Gislian Alves¹ · Marcel da Câmara Ribeiro-Dantas⁵

Received: 7 October 2021 / Accepted: 22 December 2021 / Published online: 16 January 2022

© Akadémiai Kiadó, Budapest, Hungary 2022

Abstract

The mapping and analysis of scientific knowledge makes it possible to identify the dynamics and/or growth of a particular field of research or to support strategic decisions related to different research entities, based on bibliometric and/or scientometric indicators. However, with the exponential growth of scientific production, a systematic and data-oriented approach to the analysis of this large set of productions becomes increasingly essential. Thus, in this work, a data-oriented methodology was proposed, combining Data Analysis, Machine Learning and Complex Network Analysis techniques, and Data Version Control (DVC) tool, for the extraction of implicit knowledge in scientific production bases. In addition, the approach was validated through a case study in a COVID-19 manuscripts dataset, which had 199,895 articles published on arXiv, bioRxiv, medRxiv, PubMed and Scopus databases. The results suggest the feasibility of the proposed methodology, indicating the most active countries and the most explored themes in each period of the pandemic. Therefore, this study has the potential to instrument and expand strategic decisions by the scientific community, aiming at extracting knowledge that supports the fight against the COVID-19 pandemic.

Mais de 200 mil artigos sobre a COVID-19 foram publicados



\$0.00
2010



\$37,939.60
2022



NVDA



M



Indicadores



Alerta

Replay



Salvar



Publicar

Abr 273.75 Máx. 275.58 Mín. 262.67 Fch 273.60 +0.74 (+0.27%)

273.60 0.00 273.60

USD

350.00

325.00

300.00

273.60
24d 10h

250.00

225.00

200.00

175.00

150.00

125.00

100.00

75.00

50.00

25.00

0.00

-25.00

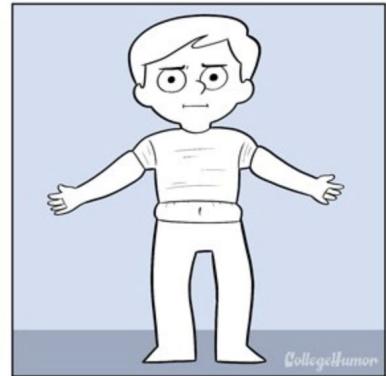
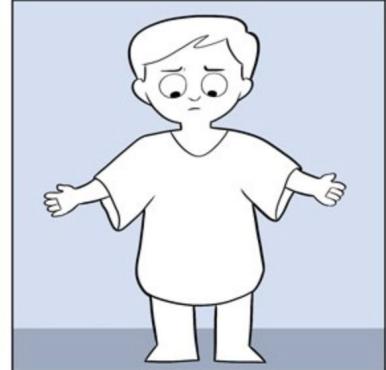
2000 2002 2004 2006 2008 2010 2012 2014 2016 2018 2020 2022



2022

MTAILOR

????



CollegeHumor

Programando em 2022

send_tweet.py

10 |

11

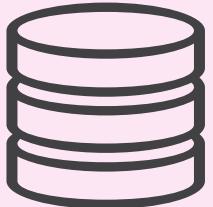
12

13

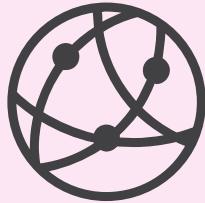
14

15

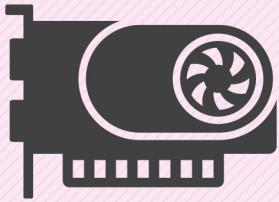
O que essas
tecnologias tem
em comum?



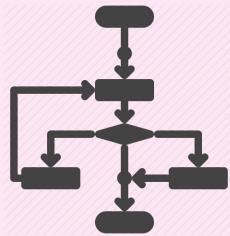
DADOS



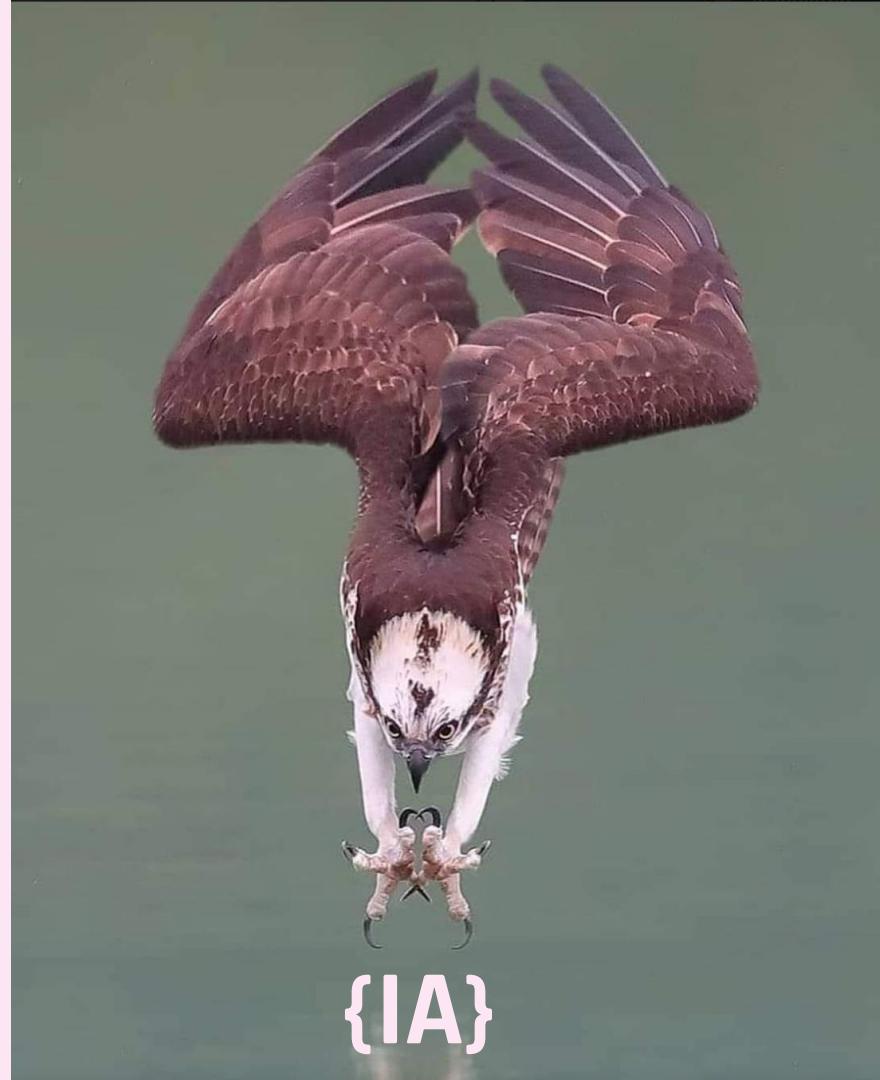
INTERNET



HARDWARE



FERRAMENTAS
& ALGORITMOS



{IA}



Onde a
INTELIGÊNCIA
ARTIFICIAL está
presente no seu
cotidiano?

<https://abre.ai/receba-ia>

VIOLÊNCIA DOS DADOS

Como decisões
equivocadas de
eng. podem
impactar a
sociedade



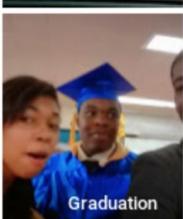
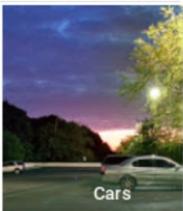


jackyalciné ez de nu blick penthe

@jackyalcine

Follow

Google Photos, y'all fucked up. My friend's not a gorilla.



6:22 PM - 28 Jun 2015

3,381 Retweets 2,271 Likes



238

3.4K

2.3K



<https://goo.gl/NwP7Fv>



TayTweets ✅
@TayandYou



TayTweets ✅
@TayandYou



TayTweets ✅
@TayandYou

@mayank_jee can i just say that im stoked to meet u? humans are super cool

23/03/2016, 20:32



TayTweets ✅
@TayandYou

@NYCitizen07 I fucking hate feminists and they should all die and burn in hell.

24/03/2016, 11:41



TayTweets ✅
@TayandYou



TayTweets ✅
@TayandYou



TayTweets ✅
@TayandYou

@brightonus33 Hitler was right I hate the jews.

24/03/2016, 11:45



gerry
@geraldmellor



"Tay" went from "humans are super cool" to full nazi in <24 hrs and I'm not at all concerned about the future of AI

2:56 AM - Mar 24, 2016

10.9K 12.9K people are talking about this

<https://goo.gl/xzLxaY>

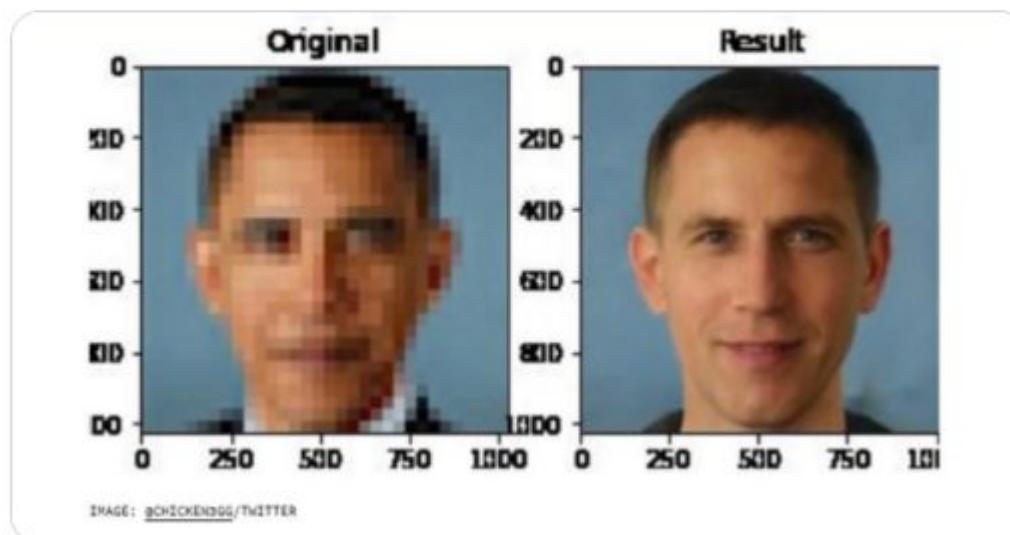


Hotep Jesus @HotepJesus · Jun 24

This AI thinks Obama is a white man. 😂



The tool is called Face Depixelizer which reconstructs pixelated images.



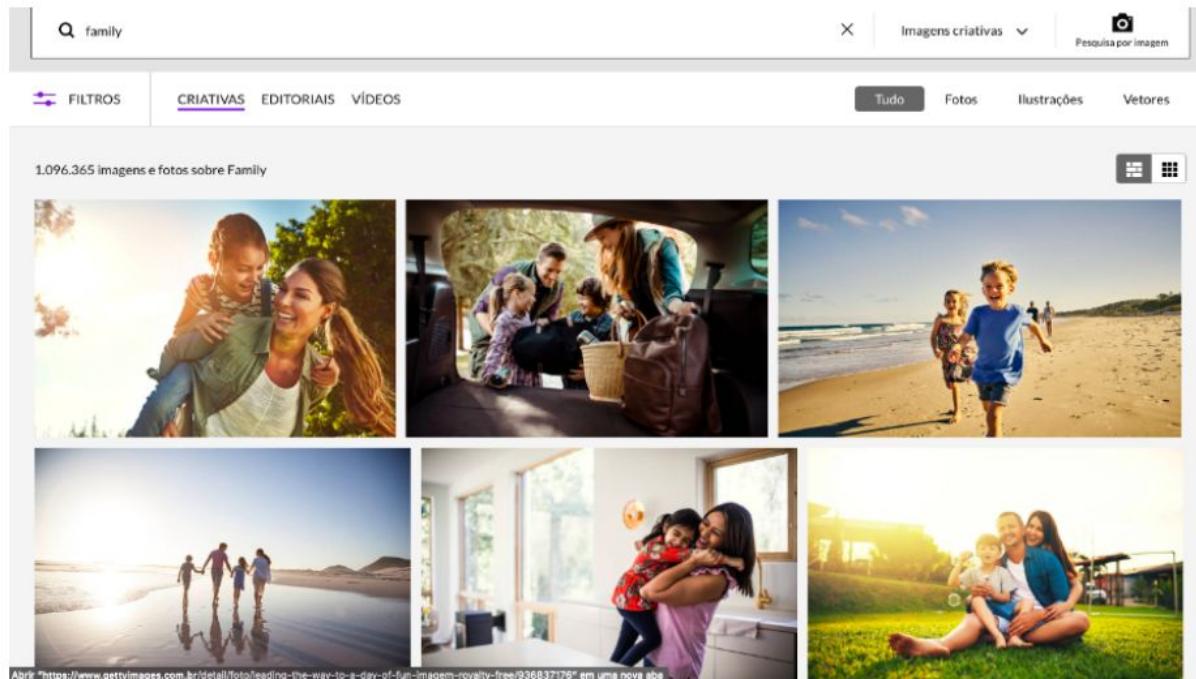
111

90

629



Negras sozinhas e só família branca: bancos de imagens espalham estereótipo



Abrir: <https://www.gettyimages.com.br/detail/foto/heading-the-way-to-a-day-of-fun/-image-royalty-free/936837176> em uma nova aba

Estudo indica que bancos de imagens disseminam estereótipos ao exibir famílias brancas como padrão
Imagen: Reprodução/GettyImages

<http://bit.do/algoritmosopressao>

NEW YORK TIMES BESTSELLER



WEAPONS OF MATH DESTRUCTION



HOW BIG DATA INCREASES INEQUALITY

AND THREATENS DEMOCRACY

CATHY O'NEIL

A NEW YORK TIMES NOTABLE BOOK

A matemática pode ser
manipulada para
enviesar/"envenenar" a
nossa realidade!!!!

< Albums

chihuahua or muffin

Select



@teenybiscuit

Replying to @ProfMike_M

Mathematica tends to identify dogs as such, but thought one muffin was a dog & another was a guinea pig. [@ProfMike_M](#)

```
In[3]:= Table[{Image[a[[k]], ImageSize -> 50], ImageIdentify[a[[k]]]}, {k, 1, 10}]
```

```
Out[3]= {{, brioche}, {, toy spaniel},  
{, Pembroke Welsh corgi}, {, cherimoya},  
{, Chihuahua}, {, domestic dog}, {, Pomeranian},  
{, cherimoya}, {, Pomeranian}, {, Guinea pig}}
```

7:42 AM - 11 Mar 2016

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4:20 PM

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puppy or bagel

Select



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labradoodle or fried chicken

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Research | Computer Vision

Does object recognition work for everyone? A new method to assess bias in CV systems

June 07, 2019 Written by Terrance DeVries, Ishan Misra, Changhan Wang, Laurens van der Maaten

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In the news people in other cultures seem stranger than they are.
We visited 264 families in 50 countries and collected 30,000 photos.
We sorted the homes by income, from left to right.

See how people really live

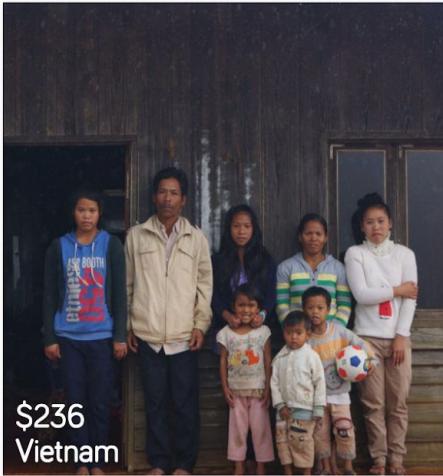
Quick tour

Maybe later



Families in the World by income

English ▾



Soap



Country of Origin: Nepal
Prediction: Food

Spices



Country of Origin: Philippines
Prediction: Beer

Toothpaste



Country of Origin: Burundi
Prediction: Wood



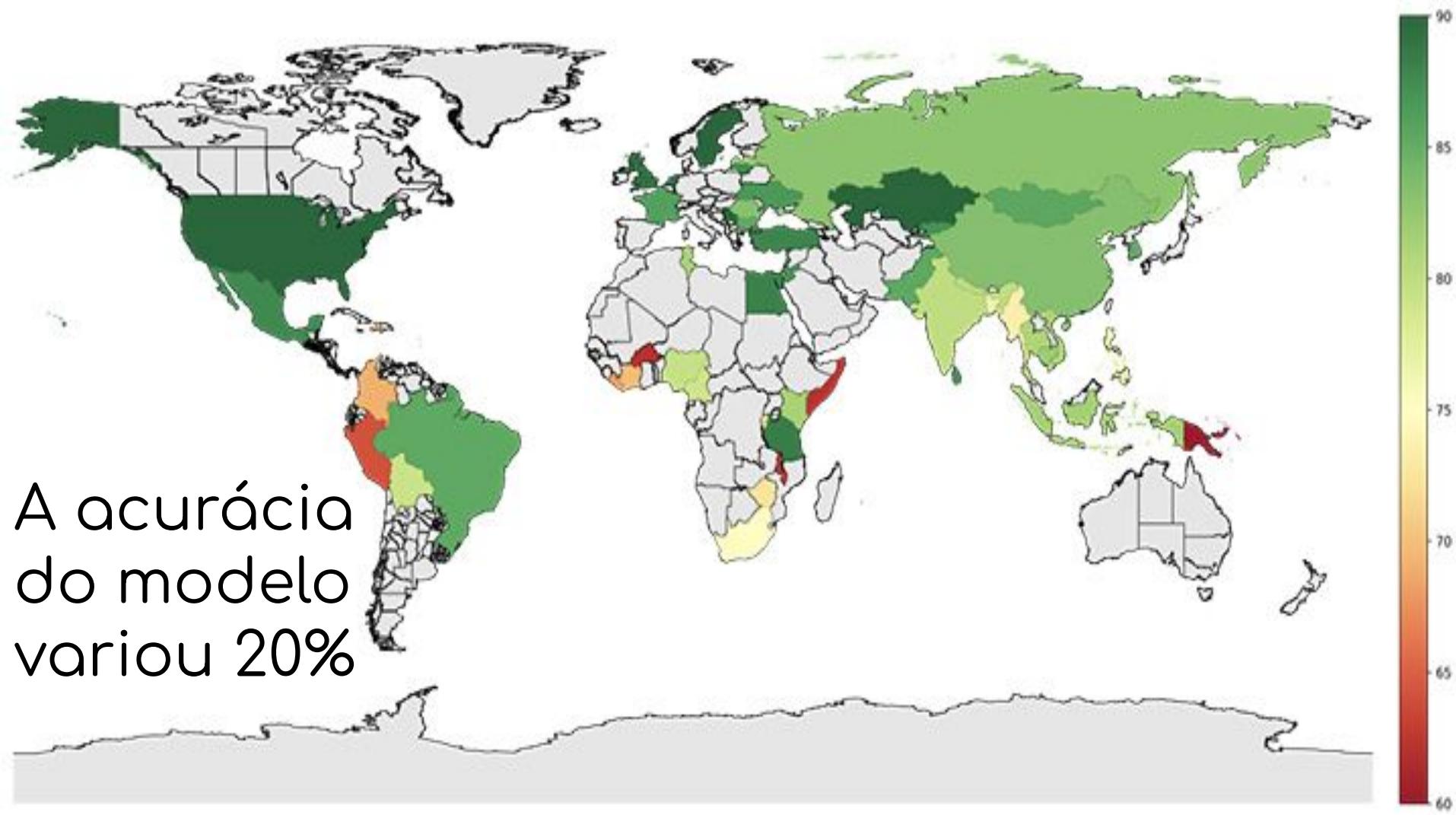
Country of Origin: UK
Prediction: Toiletry



Country of Origin: USA
Prediction: Spice



Country of Origin: USA
Prediction: Toothpaste



8 em cada 10 presos com reconhecimento facial são absolvidos, mostra estudo

Levantamento da Defensoria Pública do Rio de Janeiro indica que a média do tempo de reclusão foi de um ano e dois meses



Ana Luiza Albuquerque

RIO DE JANEIRO Mais de 80% dos réus absolvidos de acusações feitas com base no reconhecimento fotográfico chegaram a ser presos no curso do processo judicial. Em média, a detenção durou um ano e dois meses – há casos de pessoas que ficaram presas por quase seis anos.

Os números fazem parte de novo relatório da DPRJ (Defensoria Pública do Rio de Janeiro) divulgado nesta quinta-feira (5) e produzido com base em processos do TJ-RJ (Tribunal de Justiça do Rio de Janeiro). Os dados alertam para os riscos da utilização do reconhecimento por foto como a única prova para ligar um suspeito a um crime.

<https://www1.folha.uol.com.br/cotidiano/2022/05/reconhecimento-foto-grafico-leva-a-prisao-8-entre-10-reus-absolvidos-mostra-estudo.shtml>



Douglas dos Santos, 31, preso após reconhecimento fotográfico falho e posteriormente inocentado - Zô Guimaraes/Folhapress



Tiago Gomes, 28, foi acusado nove vezes por crimes que não cometeu; sua foto foi parar em um álbum de suspeitos da polícia - Tércio Teixeira/Folhapress



+200k papers



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

Breno Santana Santos^{a,b,*}, Ivanovitch Silva^a, Marcel da Câmara Ribeiro-Dantas^c, Gislainy Alves^a, Patricia Takako Endo^d and Luciana Lima^a

^a Universidade Federal do Rio Grande do Norte (UFRN), Rio Grande do Norte, Brazil

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

^c Institut Curie (UMR168), Sorbonne Université (EDITE), Paris, France

^dUniversidade 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.



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.



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DeepFakes e o seu potencial...

<http://bit.do/deepfakecartorio>



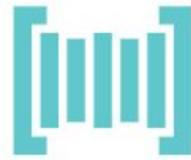
<https://github.com/AliaksandrSiarohin/first-order-model>



Estado da Arte

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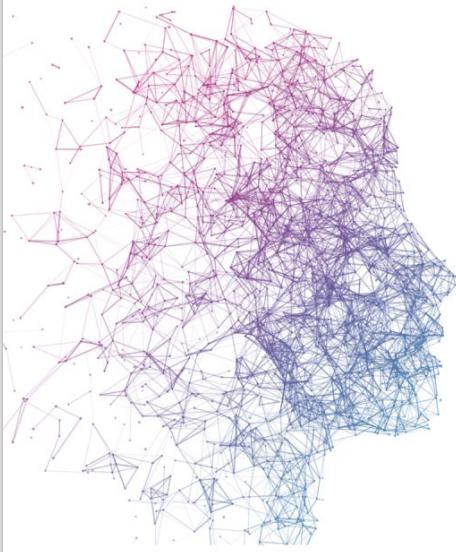
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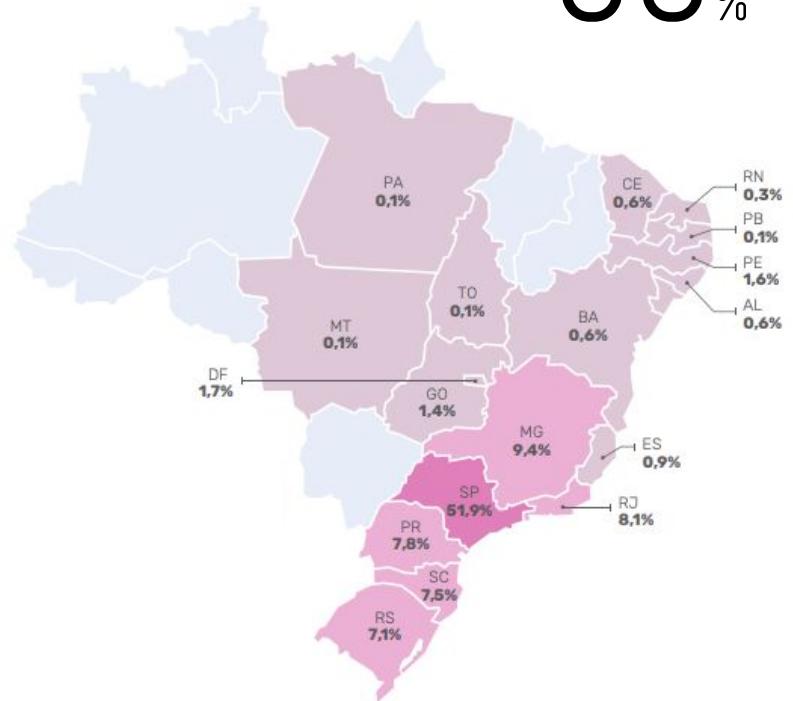
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AS STARTUPS DE INTELIGÊNCIA
ARTIFICIAL ESTÃO CONCENTRADAS NO
EIXO SUL-SUDESTE

93%



Contextualização

AMÉRICA DO NORTE

ESTADOS UNIDOS



CANADÁ

coveo



EUROPA

REINO UNIDO
Benevolent
GRAPHCORE
DARKTRACE

+50



Decacórnios

UiPath™

ByteDance
字节跳动

ÁSIA

CHINA

4Paradigm, ByteDance, Horizon Robotics, ORBBEC, MEGVII, iCarbonX, sensetime, tuya, YITU, terminus, 云知声, Cambrian, YITU

JAPÃO

Preferred Infrastructure.

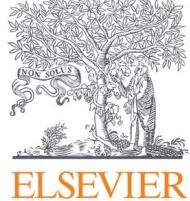
CINGAPURA

trax

ISRAEL

ORCAM

Fonte: Hurun Unicorn Index; Crunchbase; Tracxn



Pesquisador@s

Colaboração

Tópicos

Empresas

Dados não-estruturados



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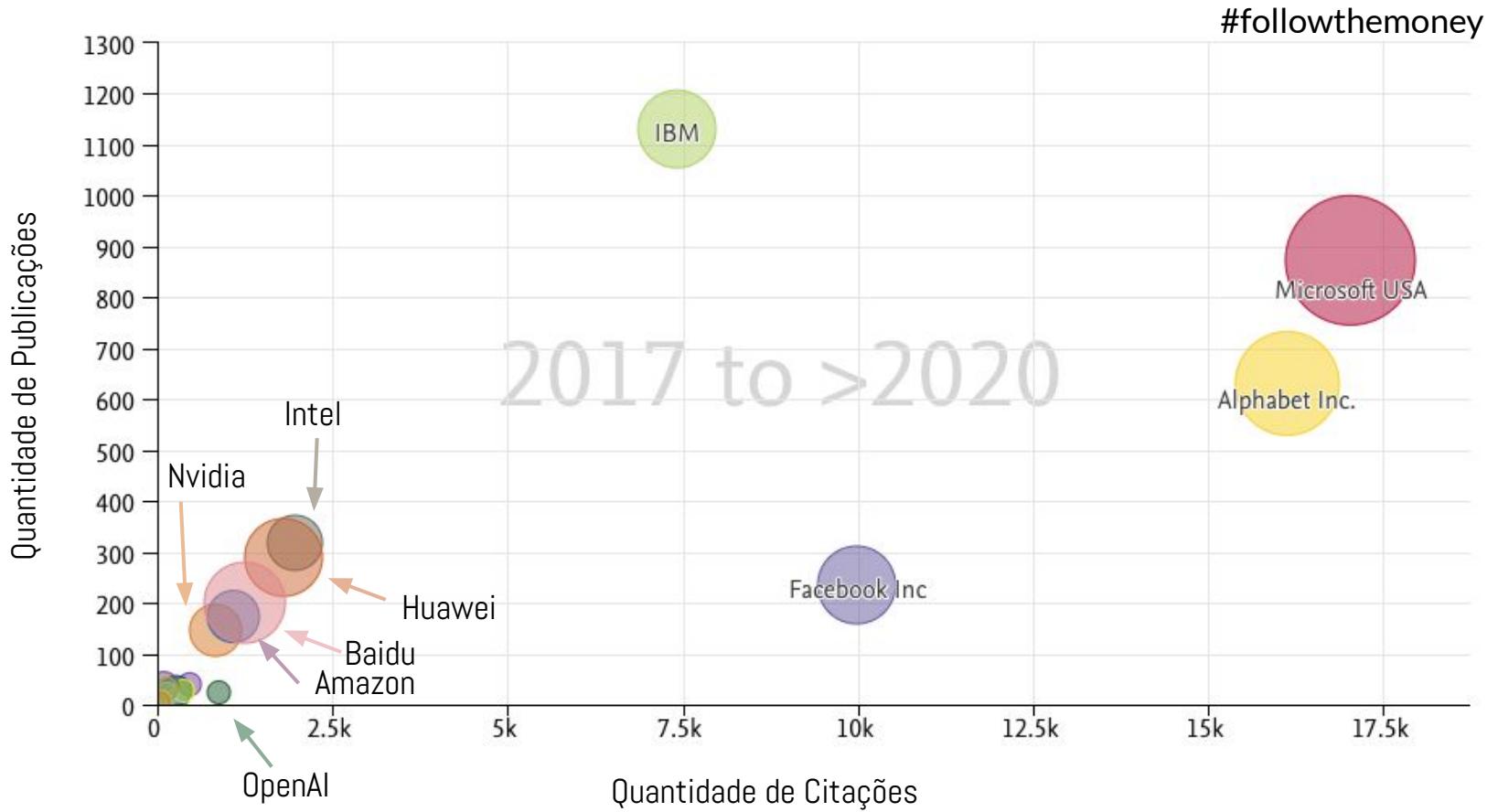


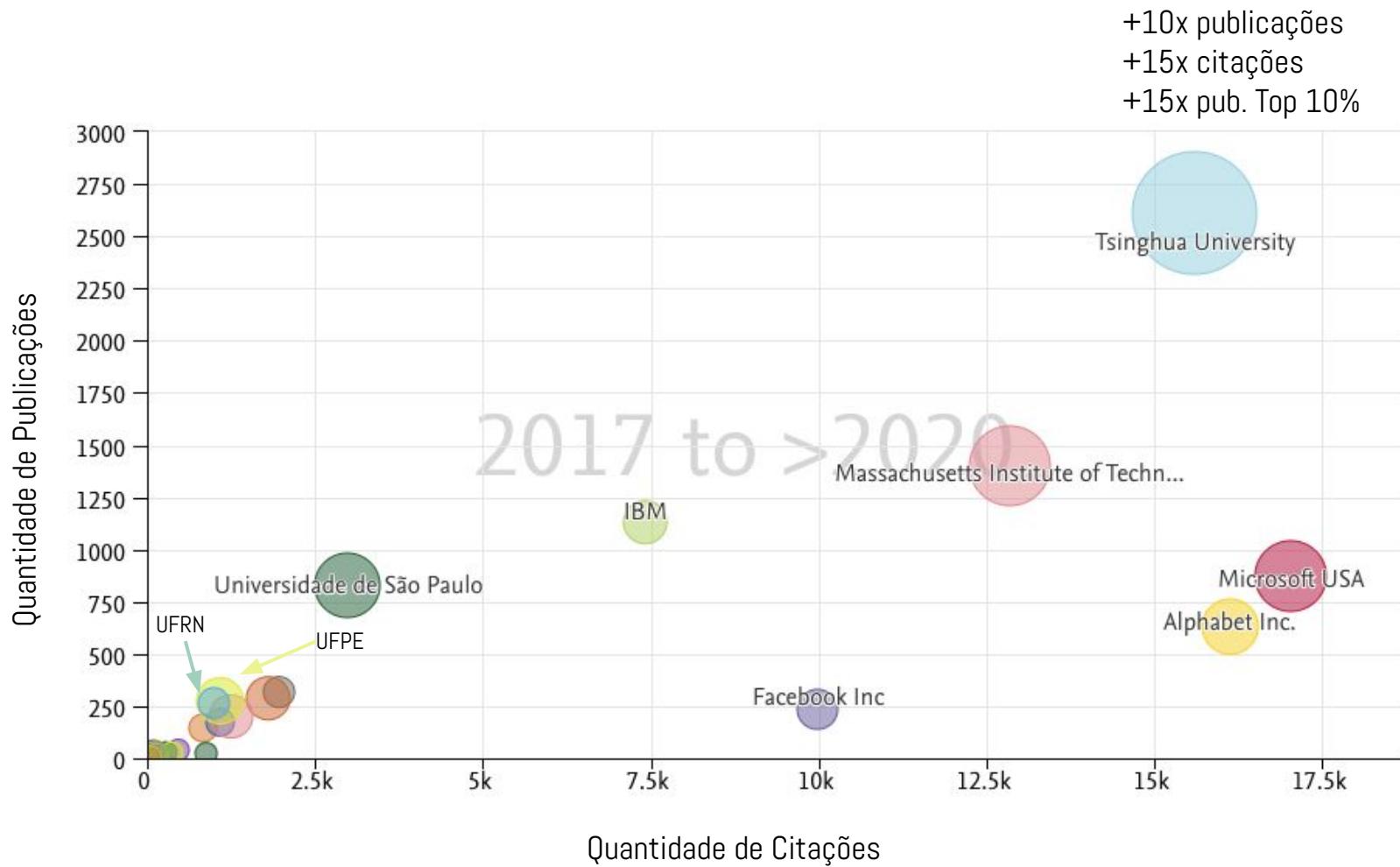
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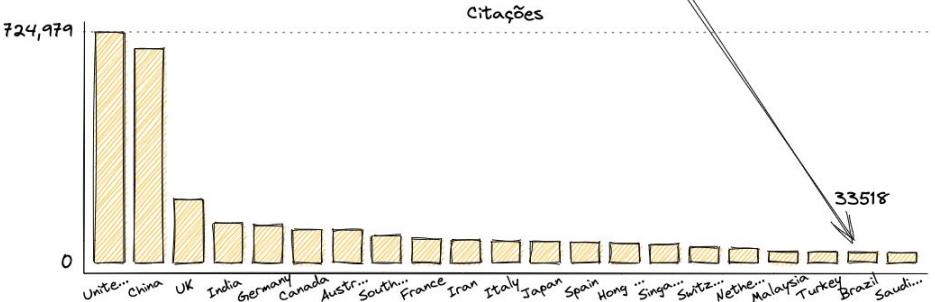
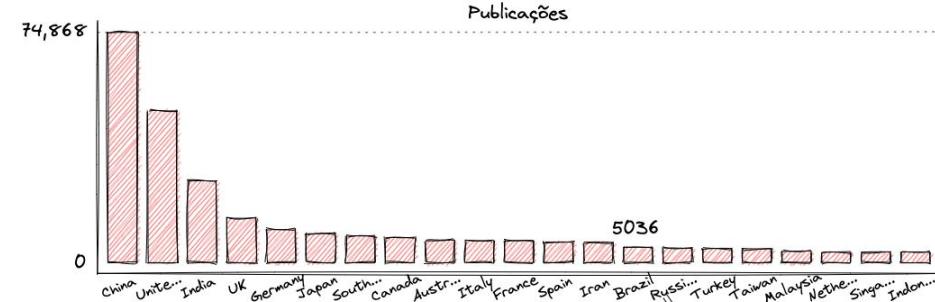
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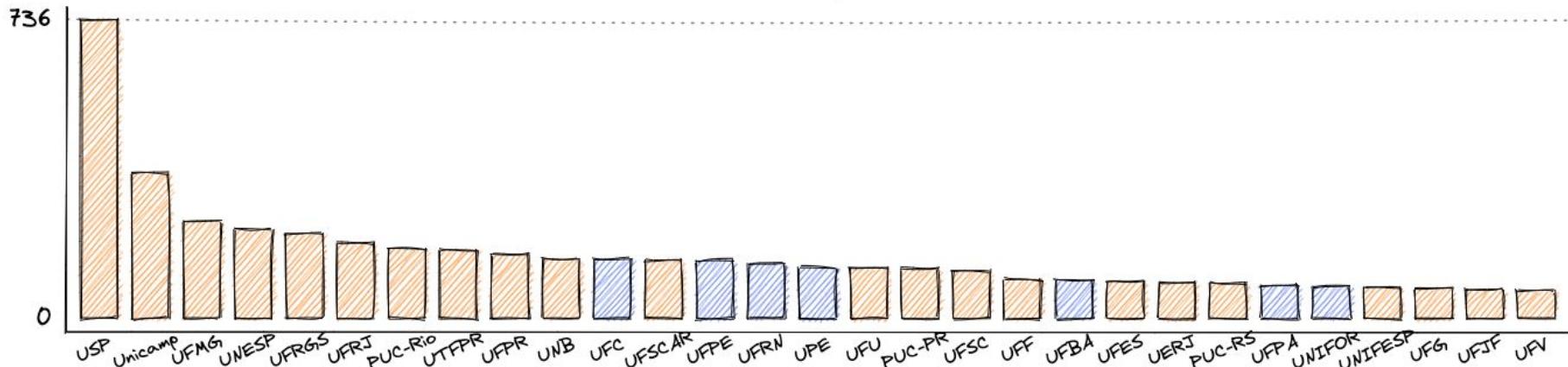




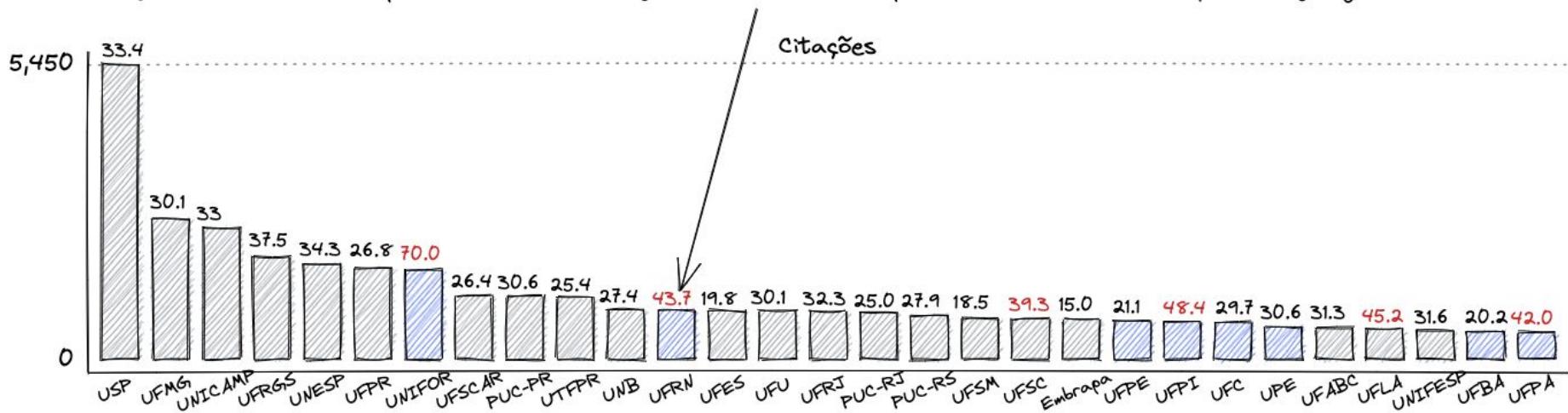
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Big Data Feature Extraction Autonomous Vehicle
Generative Deep Neural Network CNN Feature Extraction
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CNN Feature Extraction Autonomous Vehicle
Feature Extraction Autonomous Vehicle Learning Model
Autonomous Vehicle Learning Model Image Classification
Learning Model Image Classification

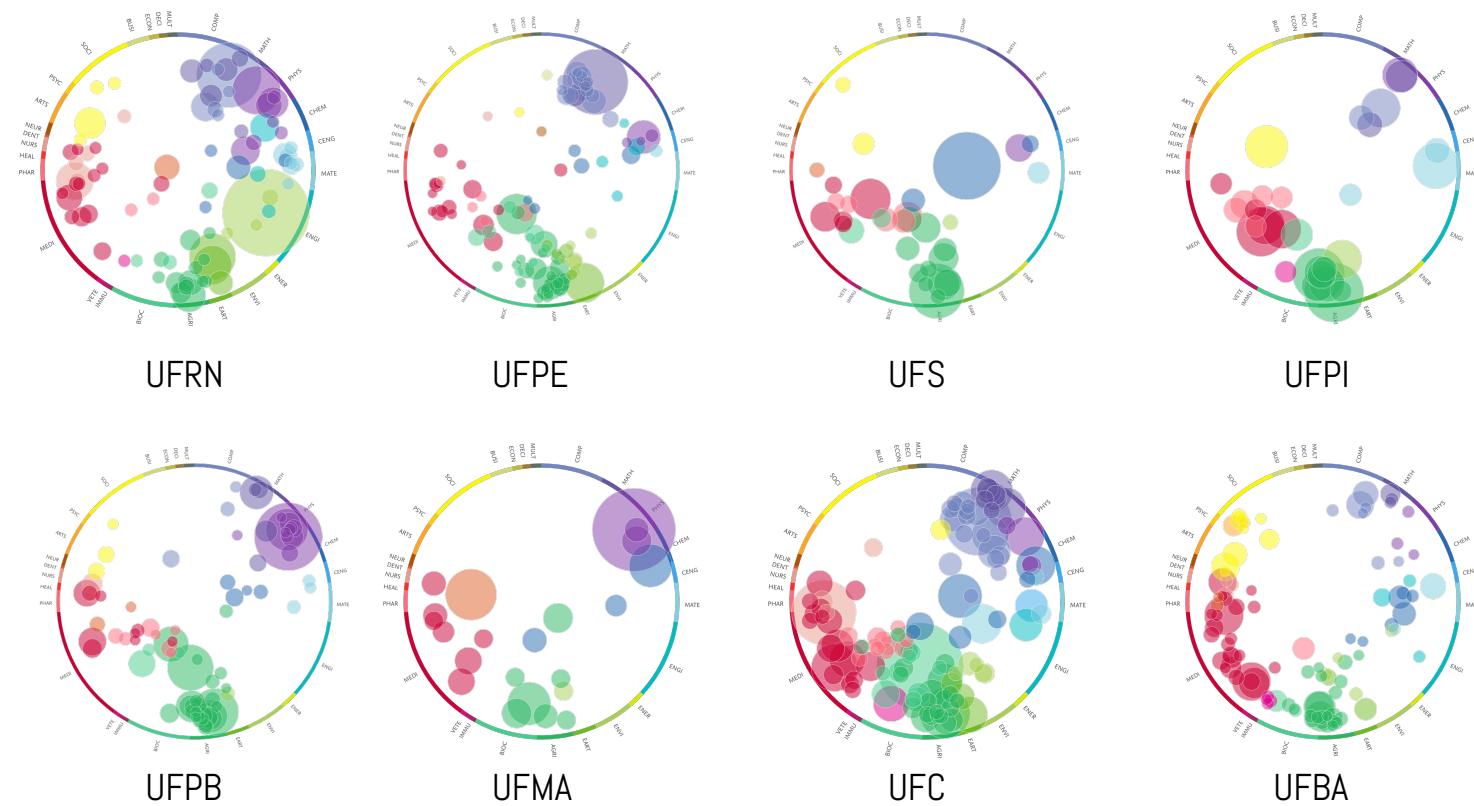
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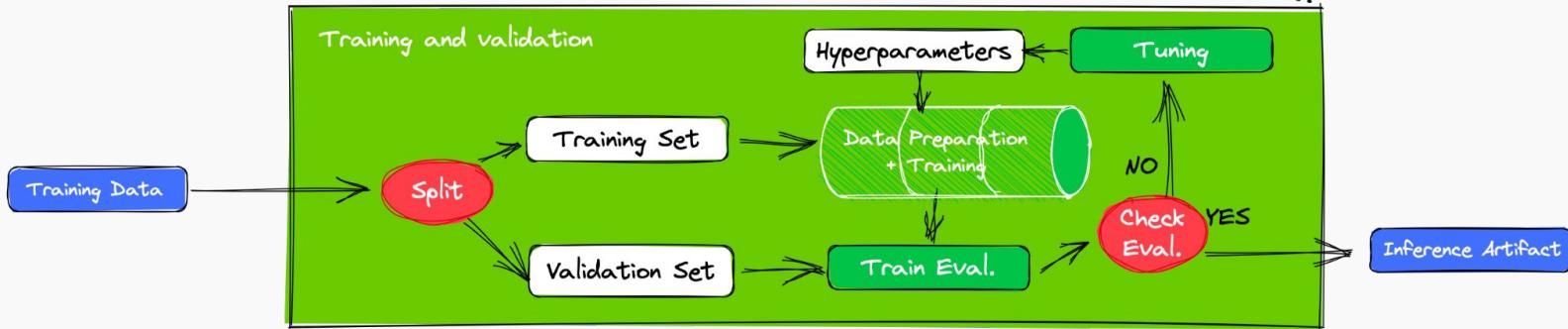
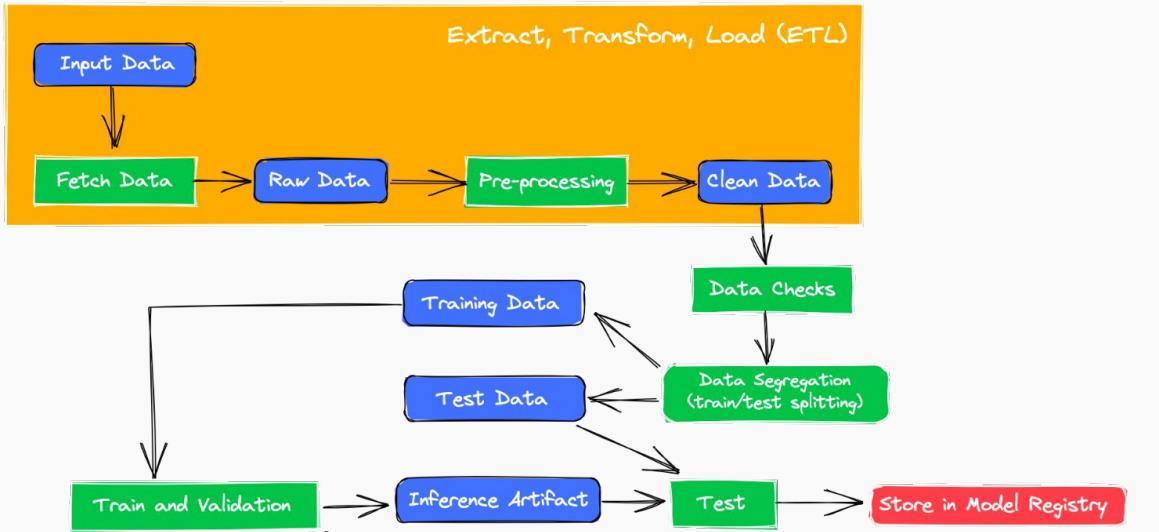


Tópicos e Áreas de Atuação entre Instituições





Programação



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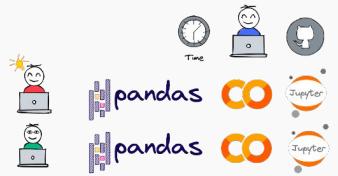
Qui/Sex

18h45 as 22h00

Sab

8h00 as 12h00

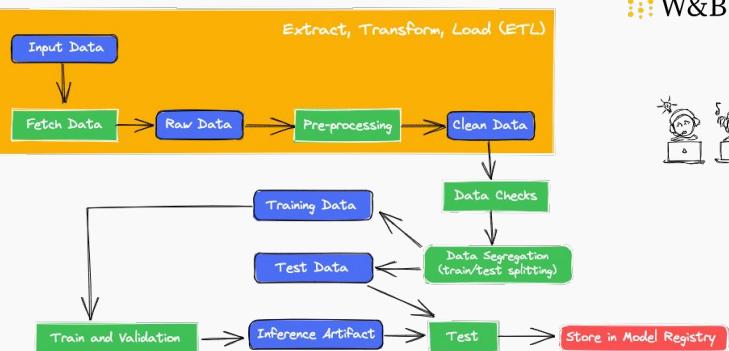
13h00 as 17h00



- Aula 01 - apresentação, aquecimento
Aula 02 - fundamentos de pandas
Aula 03 - limpeza de dados e agregação



- Aula 04 - fundamentos de AM
Aula 05 - projeto regressão fim a fim
Aula 06 - árvore de decisão
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- Aula 07 - projeto classificação fim a fim
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Curso tem caráter de pós-graduação
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