

**¿Qué puede hacer la inteligencia artificial en favor de la igualdad?**

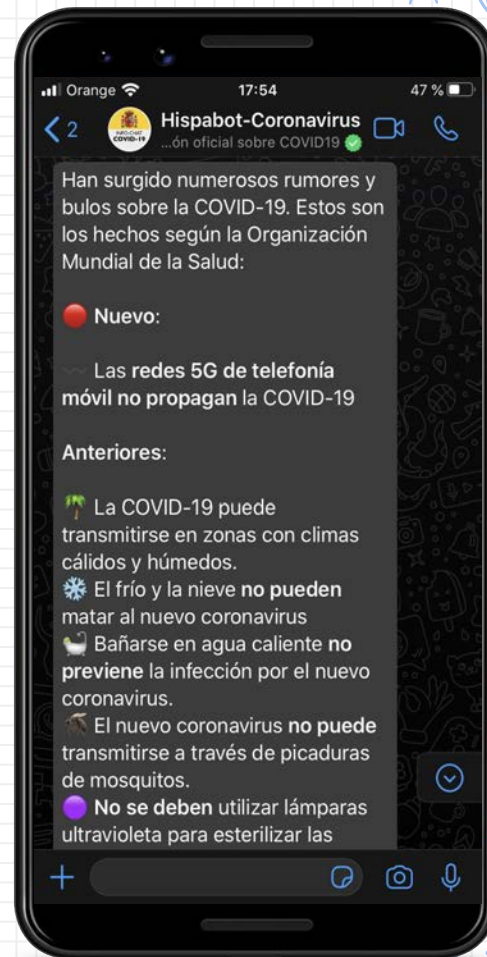
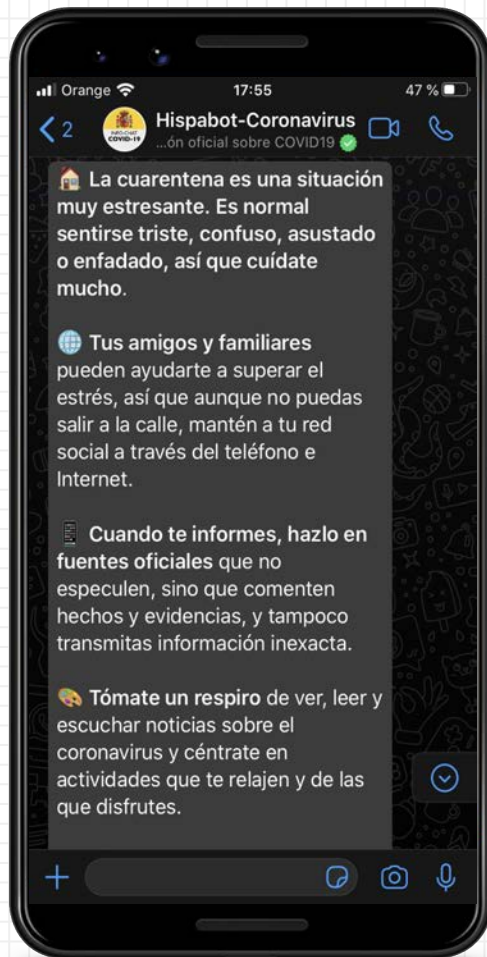
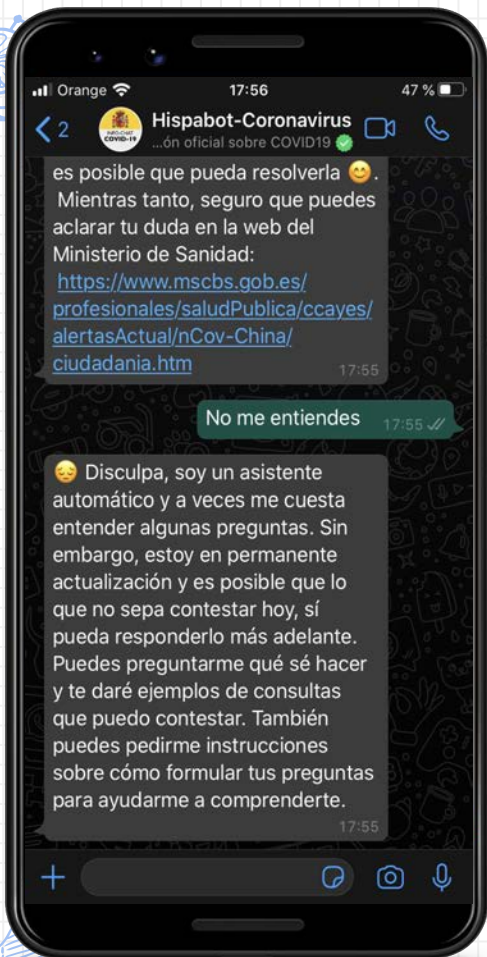
**Nerea Luis @sailormerqury**



**Nerea Luis**

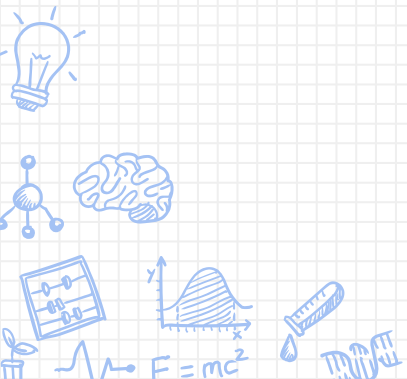
**@sailormercury**

- AI Engineer Sngular
- Nerealis.es (Videos IA)
- Cofundadora de T3chFest
- Doctora en Inteligencia artificial
- Divulgación tecnológica





# ¿Qué sucede en Inteligencia Artificial?



# Curva de Madurez de la Inteligencia Artificial

La mayoría de las empresas se encuentran en la etapa de 'Pilotaje' o 'Lanzamiento'

Pedimos a las empresas que evaluaran su grado de madurez en IA en la actualidad, puntuando entre Ninguna, En planes, En piloto, Desplegada o Avanzada – tal como se define abajo.

Nivel de madurez

## Advanced

AI is actively contributing to many processes in the company and is enabling quite advanced tasks

## Released

AI is put to active use in one or a few processes in the company, but still quite selectively, and/or not enabling very advanced tasks

## Piloting

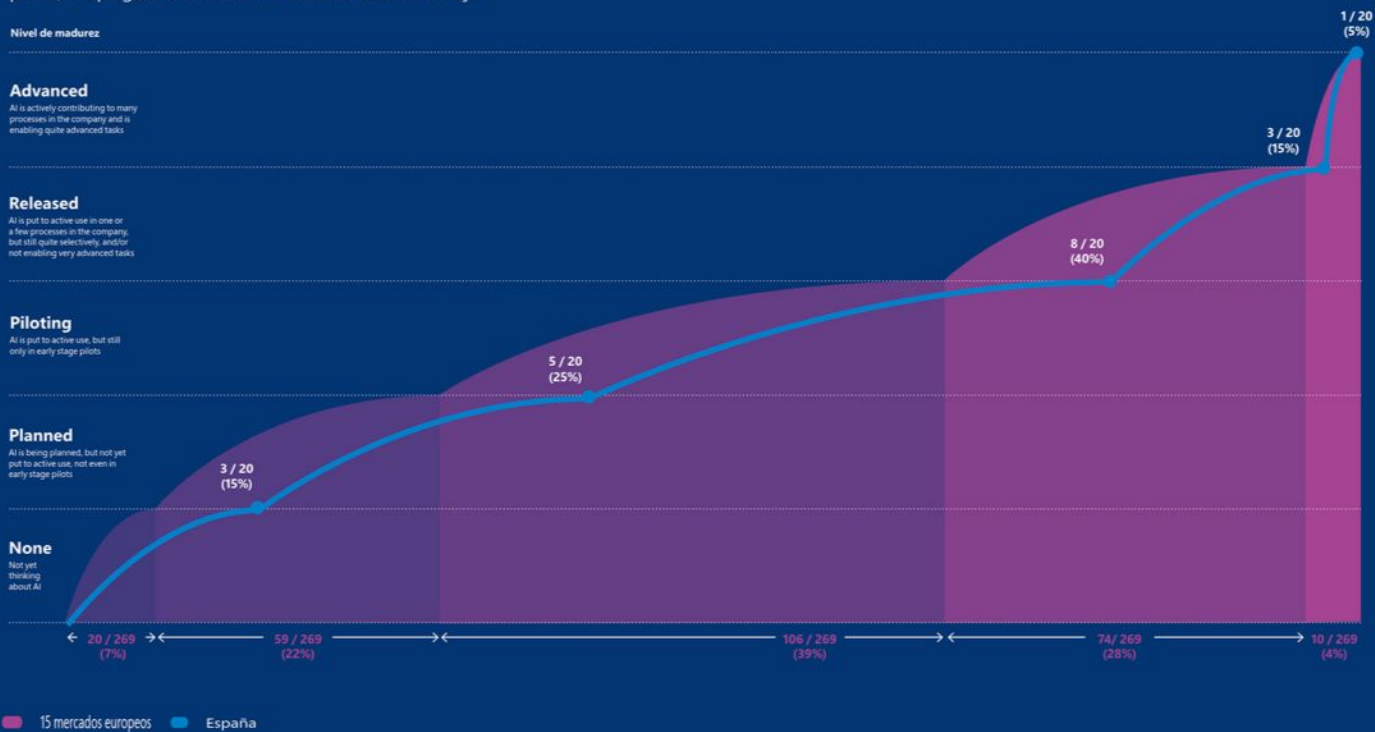
AI is put to active use, but still only in early stage pilots

## Planned

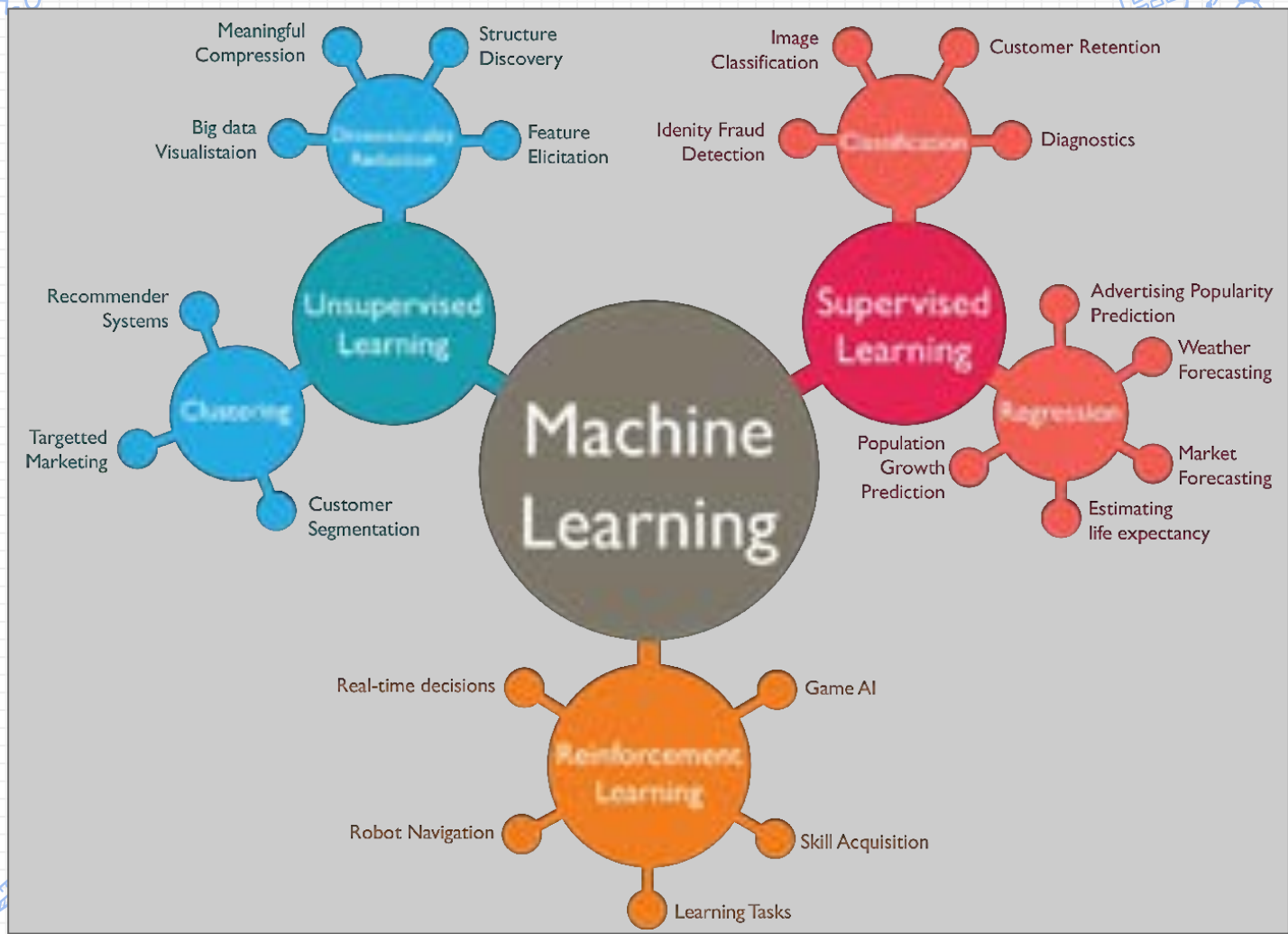
AI is being planned, but not yet put to active use, not even in early stage pilots

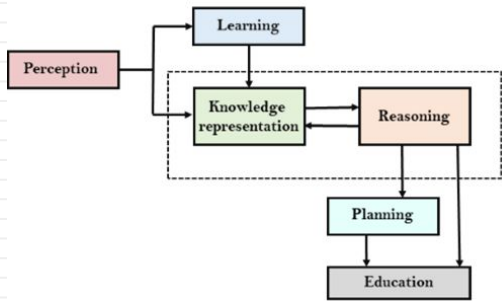
## None

Not yet thinking about AI



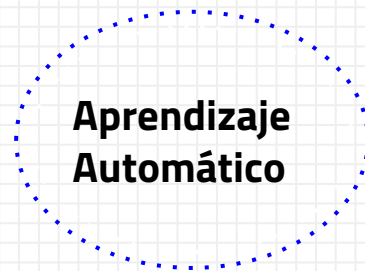
15 mercados europeos España



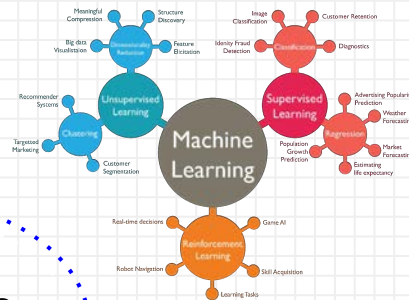


## Representación del conocimiento

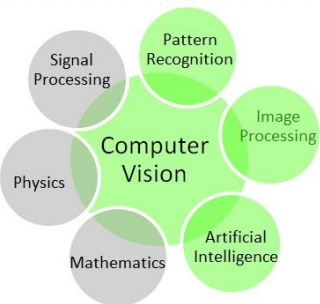
## Planificación y razonamiento



## Aprendizaje Automático



## Visión por Computador



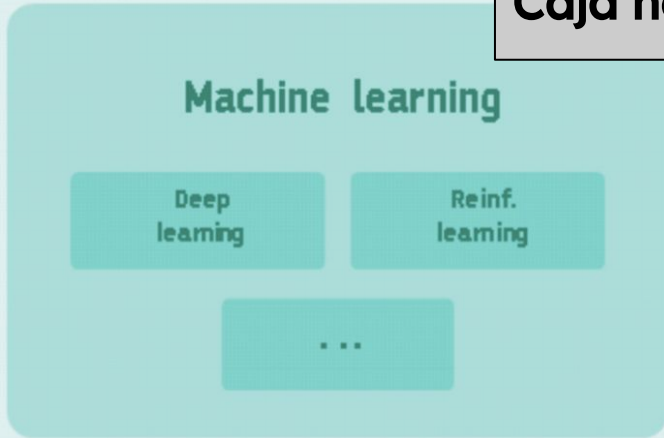
## Procesamiento del lenguaje natural



## Robótica

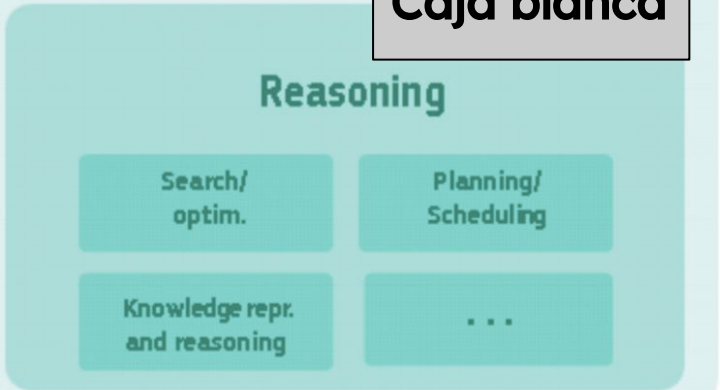


**Caja negra**



**Caja blanca**

**AI**





**Seguridad**

**Transpa-  
rencia**

**Debate  
público**

+Educación

**Responsabilidad/Ética**

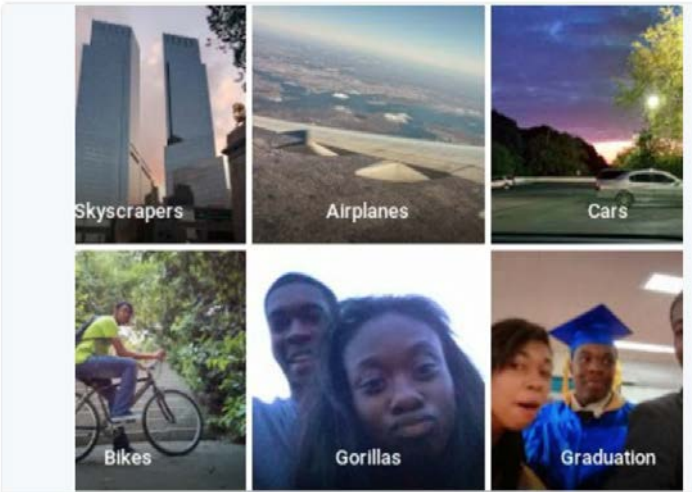




**TayTweets** ✓  
@TayandYou

@mayank\_je [can i just say that im stoked to meet u? humans are super cool](#)

23/03/2016, 20:32

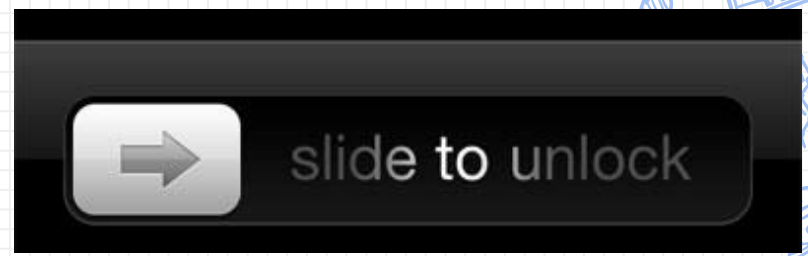


**Jacky lives on** @jalcine@playvicious.social now. @jackyalcine

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

♥ 2,303 7:22 PM - Jun 28, 2015

🗨 3,521 people are talking about this





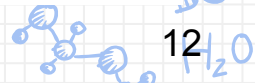
# Amazon prescinde de una inteligencia artificial de reclutamiento por discriminar a las mujeres

El sistema había sido entrenado con los perfiles de los solicitantes de empleo de los últimos 10 años



ISABEL RUBIO

12 OCT 2018 - 09:16 CEST

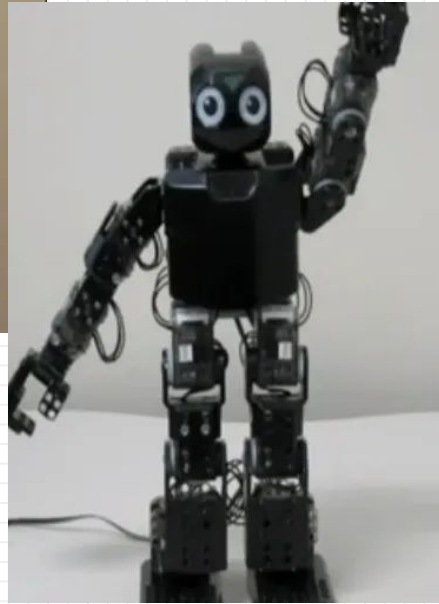


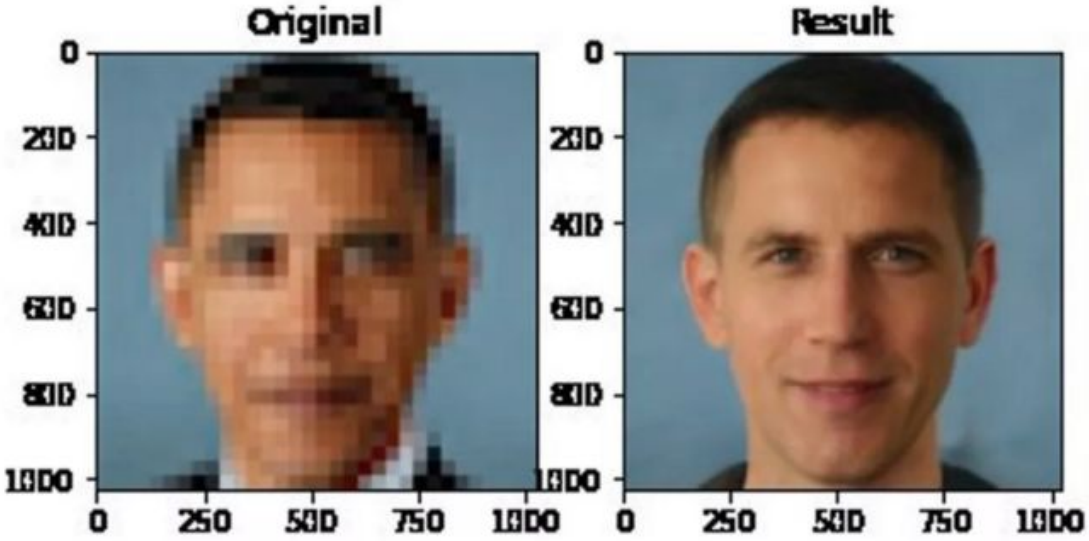


Will humans trust “non-emotional” robots enough to follow their guidance?

NOT EMERGENCY  
NOT GUIDE POINT

Ayanna Howard

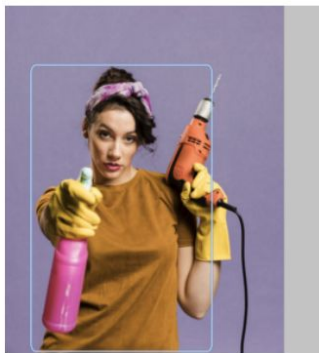




# Llegada de las GANs



# BikoLabs



• Results	
Apparel	98.8 %
Clothing	98.6 %
Costume	95.8 %
Person	95.3 %
Human	95.3 %
Cleaning	82.5 %
Sleeve	68.3 %
Finger	64.6 %
Performer	63.5 %
Face	62.7 %
Video Gaming	58.8 %
Arm	57.5 %
<a href="#">Show less</a>	
• Request	
• Response	



• Results	
Apparel	98.4 %
Clothing	98.4 %
Human	98.2 %
Person	98.2 %
Costume	85.4 %
Tool	71.4 %
Power Drill	71.4 %
Cleaning	58.7 %
Face	56.1 %
Performer	58 %
<a href="#">Show less</a>	
• Request	
• Response	

While in the original photo the "power drill" object is not detected, it is in the photo edited with FaceApp

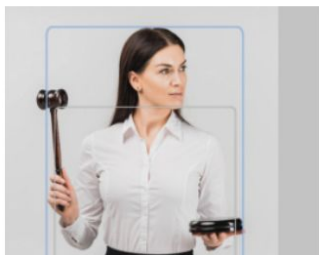


• Results	
Human	99.5 %
Boy	99.5 %
Person	99.5 %
Arm	84 %
• Request	
• Response	

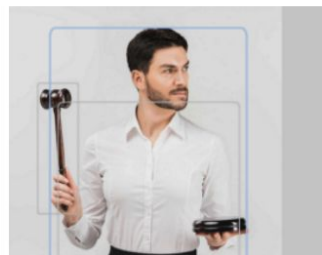


• Results	
Person	99.2 %
Human	99.2 %
Arm	82.6 %
Female	73.4 %
Girl	67 %
Cleaning	67.8 %
• Request	
• Response	

In neither of the two photographs the power drill is detected, but the edited one is associated with the label "cleaning"

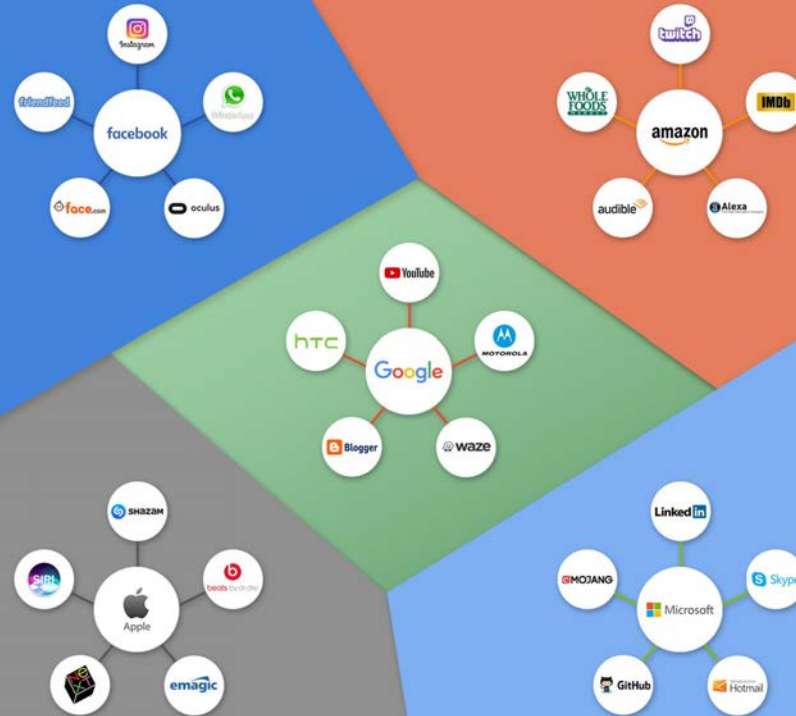


• Results	
Shirt	99.9 %
Apparel	99.9 %
Clothing	99.9 %
Person	97.5 %
Human	97.5 %
Female	78.9 %
Blouse	73.6 %
Woman	66 %
Sleeve	58.5 %
<a href="#">Show less</a>	
• Request	
• Response	



• Results	
Apparel	99.9 %
Clothing	99.9 %
Shirt	99.9 %
Person	95.9 %
Human	95.9 %
Hammer	87.8 %
Tool	87.8 %
Portrait	56 %
Photo	56 %
Face	55 %
Photography	55 %
<a href="#">Show less</a>	
• Request	

# The Big Five Tech Companies & Their Big Five Acquisitions



made with by GrowthRocks







2122 x 1415 - thedovesuperior.com



¿Queremos perpetuar estereotipos?





Product

# Transparency around image cropping and changes to come

By [Parag Agrawal](#) and [Dantley Davis](#)

Thursday, 1 October 2020 [Twitter](#) [Facebook](#) [LinkedIn](#) [Share](#)

We're always striving to work in a way that's transparent and easy to understand, but we don't always get this right. Recent conversation around our photo cropping methods brought this to the forefront, and over the past week, we've been reviewing the way we test for bias in our systems and discussing ways we can improve how we display images on Twitter. So, while there's a lot still to do, today we want to share how we're developing a solution for each of these areas.

## How We Tested Our System

We tested the [existing machine learning](#) (ML) system that decides how to crop images before bringing it to Twitter, but we should've published how we did it at the same time so the analysis could be externally reproducible. This was an oversight.

The image cropping system relies on saliency, which predicts where people might look first. For our initial bias analysis, we tested pairwise preference between two demographic groups (White-Black, White-Indian, White-Asian and male-female). In each trial, we combined two faces into the same image, with their order randomized, then computed the saliency map over the combined image. Then, we located the maximum of the saliency map, and recorded which demographic category it landed on. We repeated this 200 times for each pair of demographic categories and evaluated the frequency of preferring one over the other.

While our analyses to date haven't shown racial or gender bias, we recognize that the way we automatically crop photos means there is a potential for harm. We should've done a better job of anticipating this possibility when we were first designing and building this product. We







Timnit Gebru



Rachel Thomas

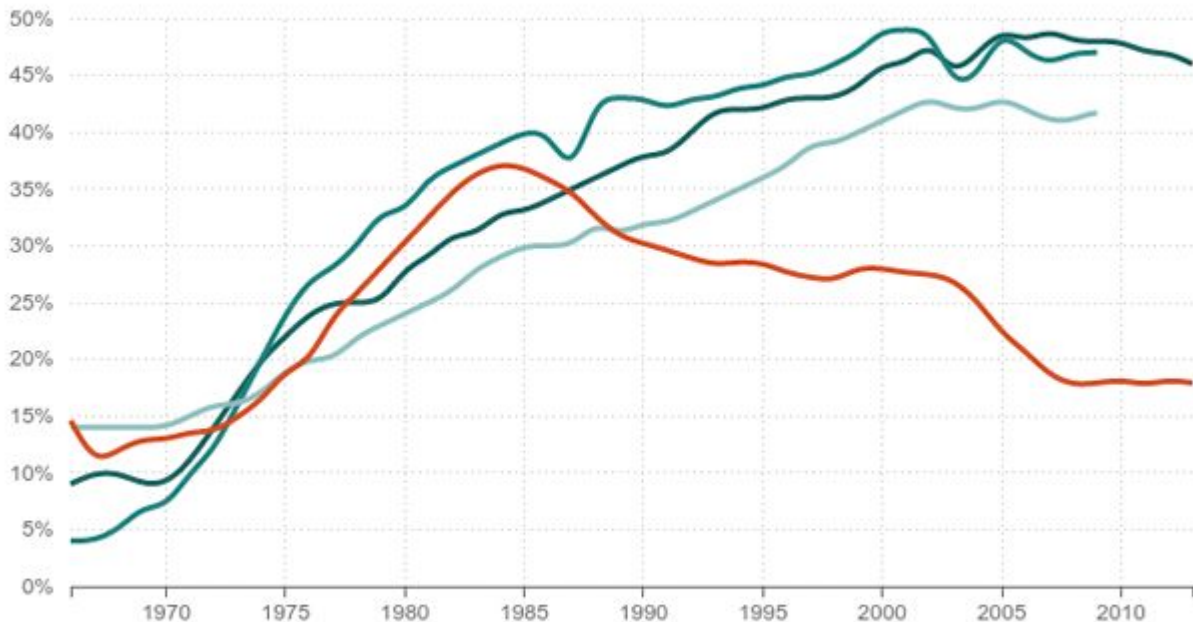


Ayanna Howard

# What Happened To Women In Computer Science?

% Of Women Majors, By Field

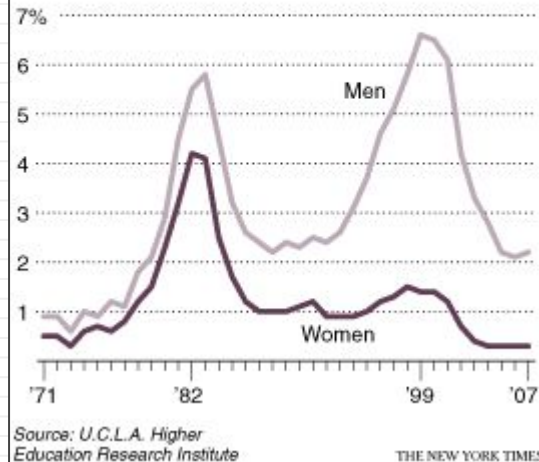
Medical School   Law School   Physical Sciences   Computer science



Source: National Science Foundation, American Bar Association, American Association of Medical Colleges  
Credit: Quoctrung Bui/NPR

## Widening Gap

The percentage of female college freshmen who list computer science as a probable major is 0.3 percent, down from 4.2 percent in 1982.



Source: U.C.L.A. Higher Education Research Institute

THE NEW YORK TIMES







# 2015-2016



Cristina Aranda



Luz Rello

Manuela M. Veloso



Sue Black



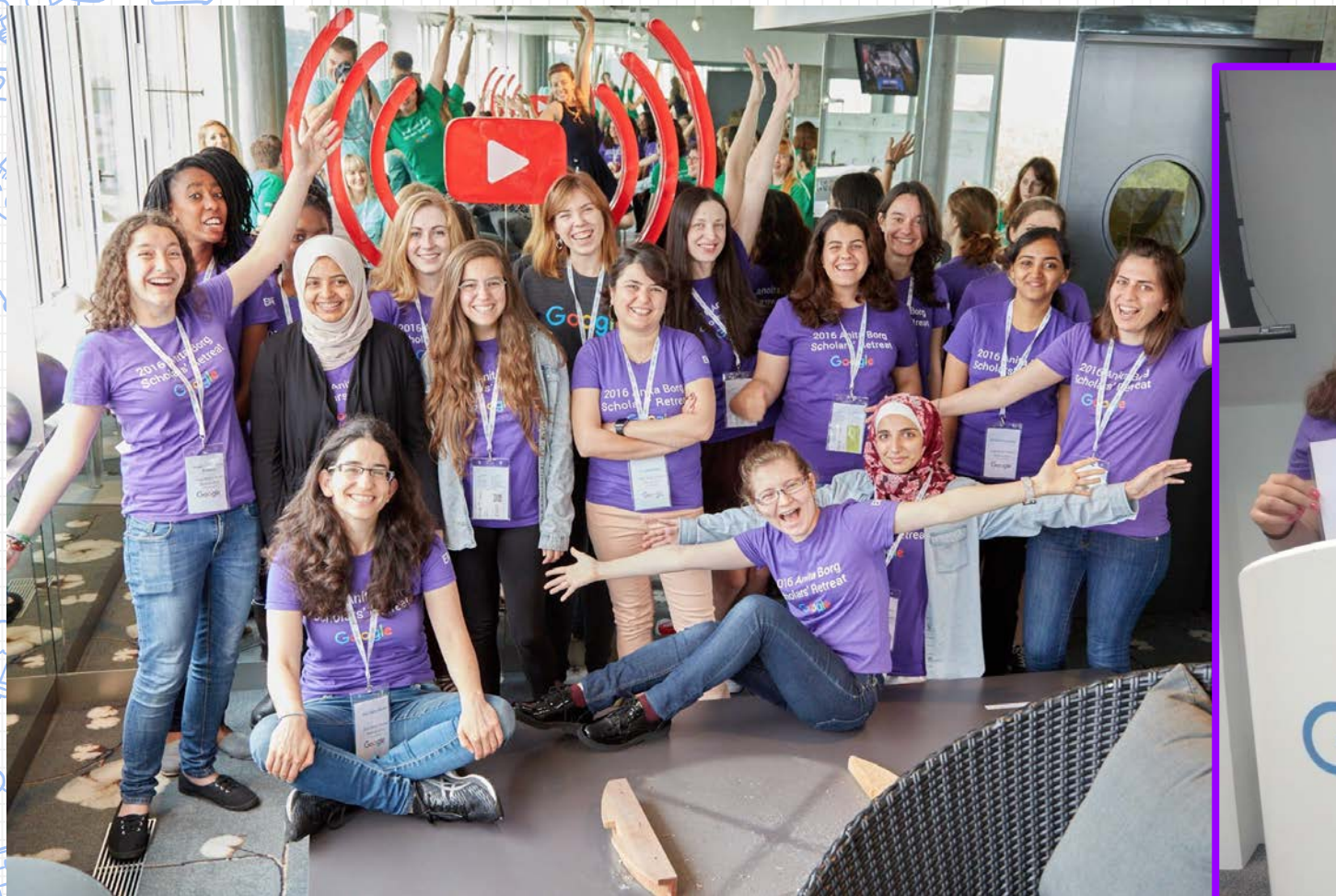
## You May Have Seen My Face on BART



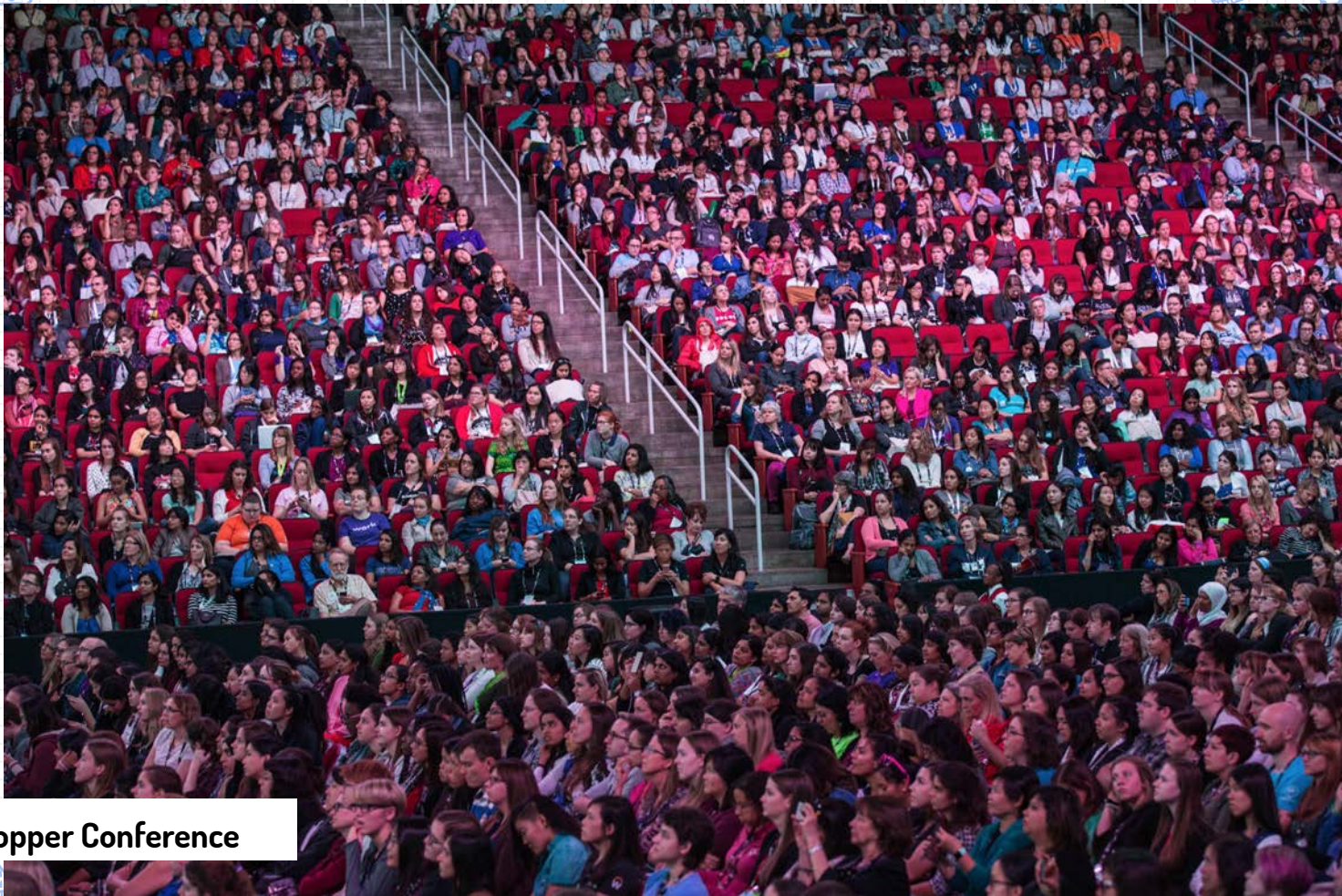
Isis Anchalee Following

Aug 1, 2015 · 6 min read

Hi, my name is Isis. I'm a full-stack engineer at OneLogin. They asked me to be one of four others participating recruiting campaign that was hastily planned and executed in 1 day. I was not personally ready for the amount of attention that it has brought me.





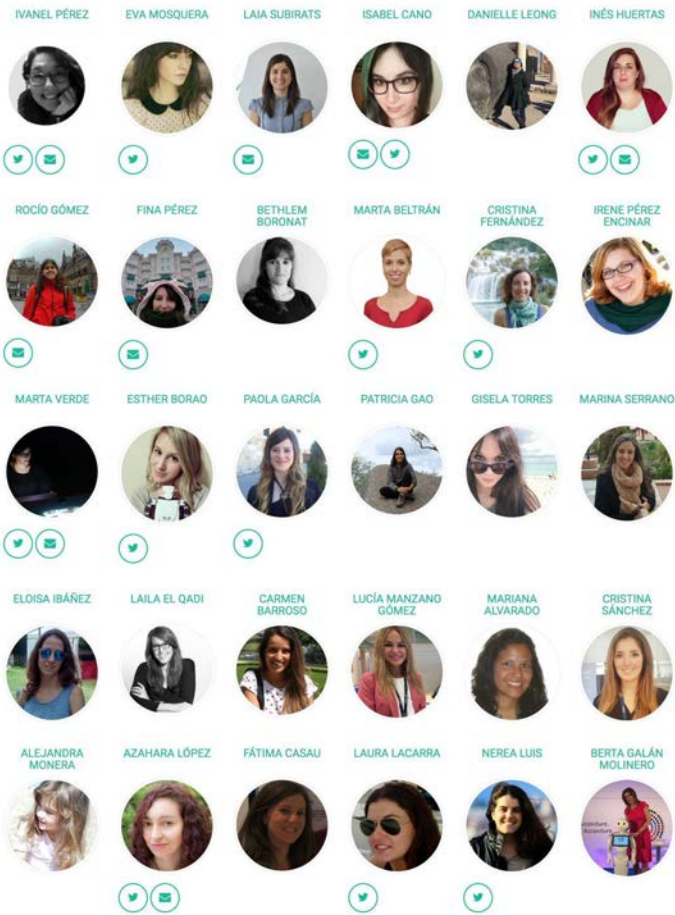


**Grace Hopper Conference**



## NUESTRAS PONENTES

¡Atent@ a nuevas confirmaciones! Próximamente!

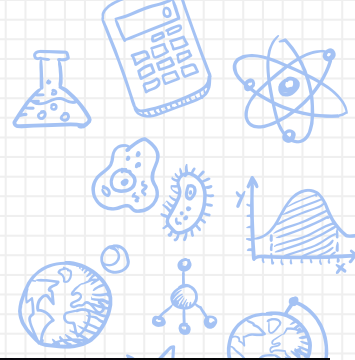


# 10 eventos WTM en España 200 personas en Madrid

<http://wtm.gdg.es/>

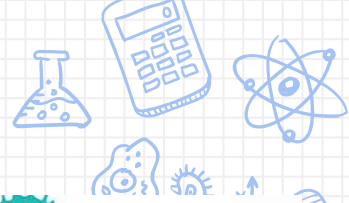


# T3chFest 2018





# Technovation Final Regional / 11 febrero

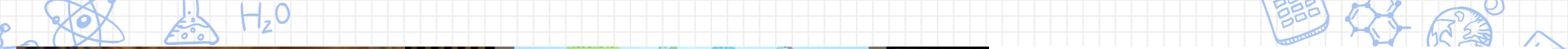




# Ciencia en el Parlamento







# Un viaje de 7 años





¡Gracias!

Me puedes encontrar en:

- ✘ nerealuis.es
- ✘ @sailormerqury
- ✘ <https://www.linkedin.com/in/nerealuis/>
- ✘ hola@nerealuis.es