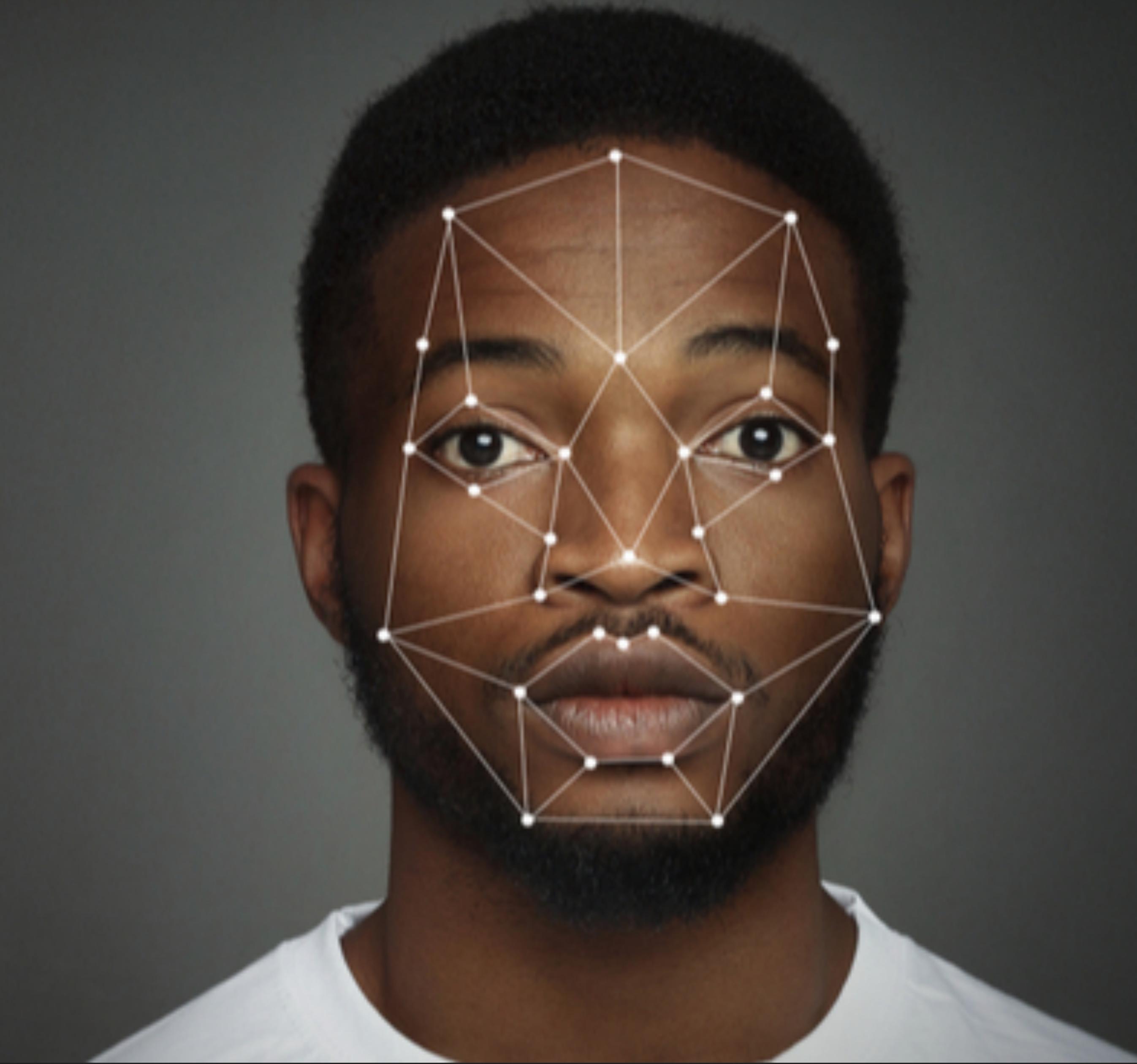


(Un)Ethical Computing

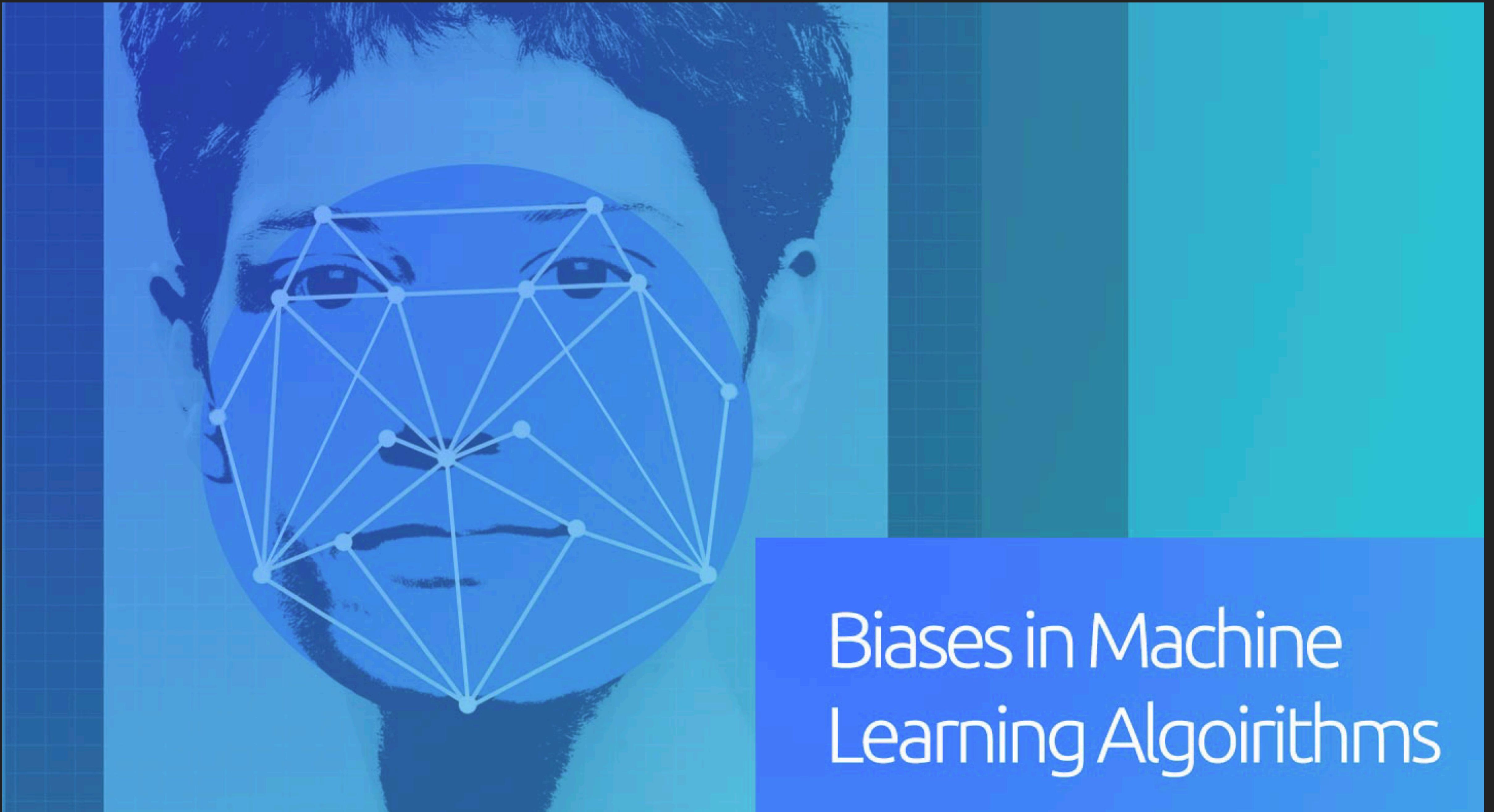
face recognition



predicting recidivism



human resources



Biases in Machine
Learning Algorithms

financial lending



non-consensual imagery

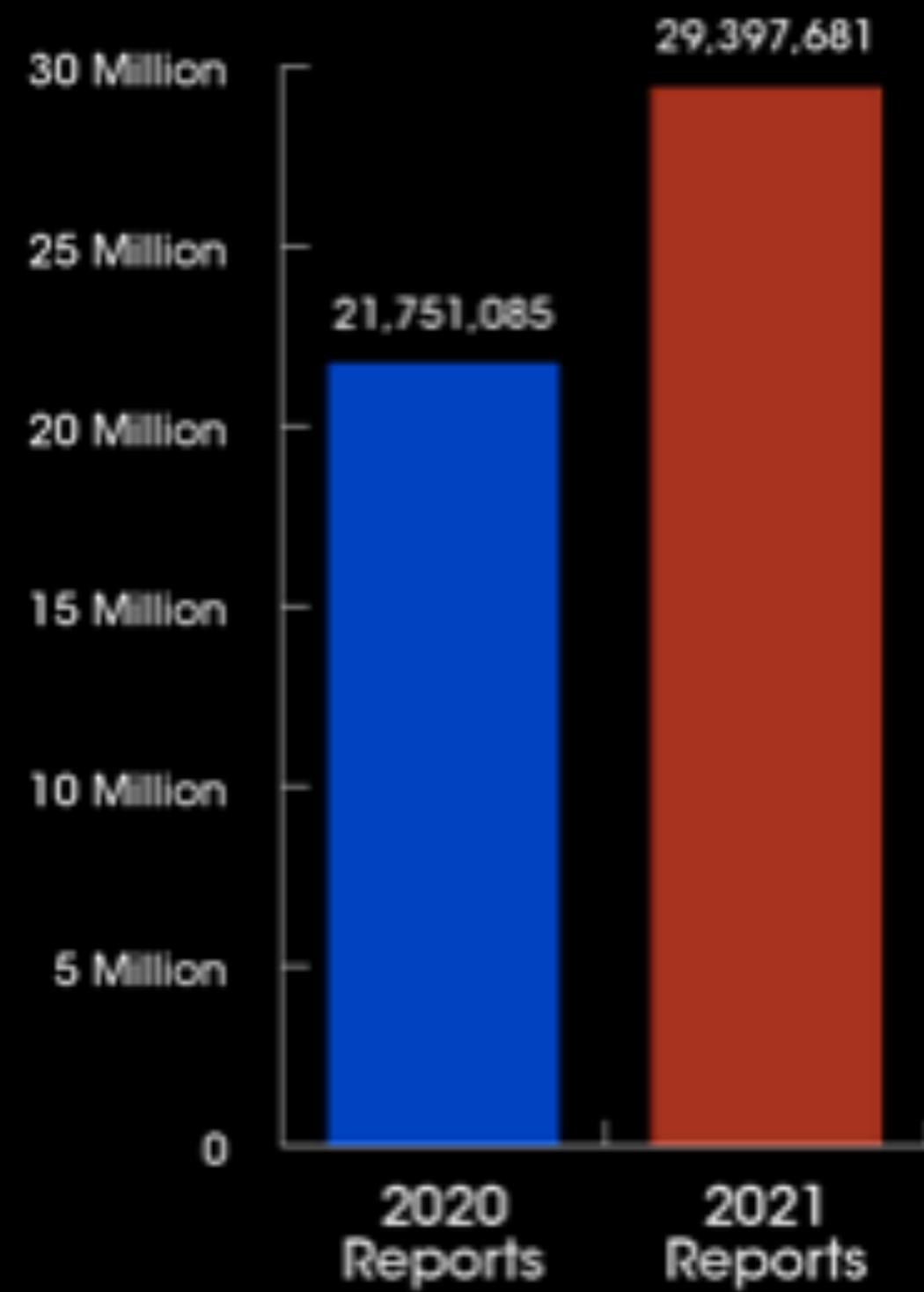


addiction (body image, self harm, bullying,...)



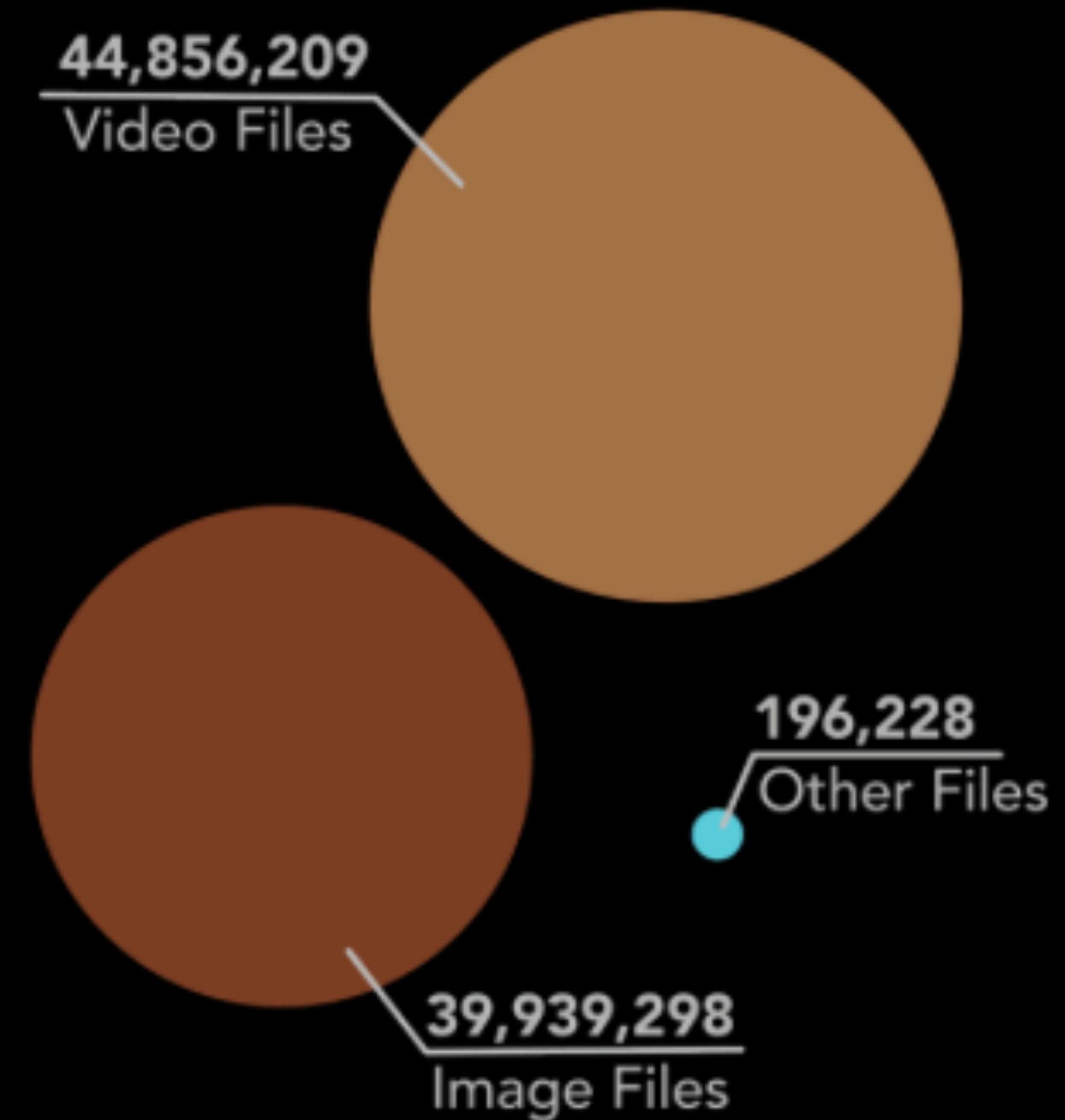
child sexual abuse

Total Reports



In 2021, reports to the CyberTipline increased by **35%** from 2020.

Reports to the CyberTipline included 85 million files

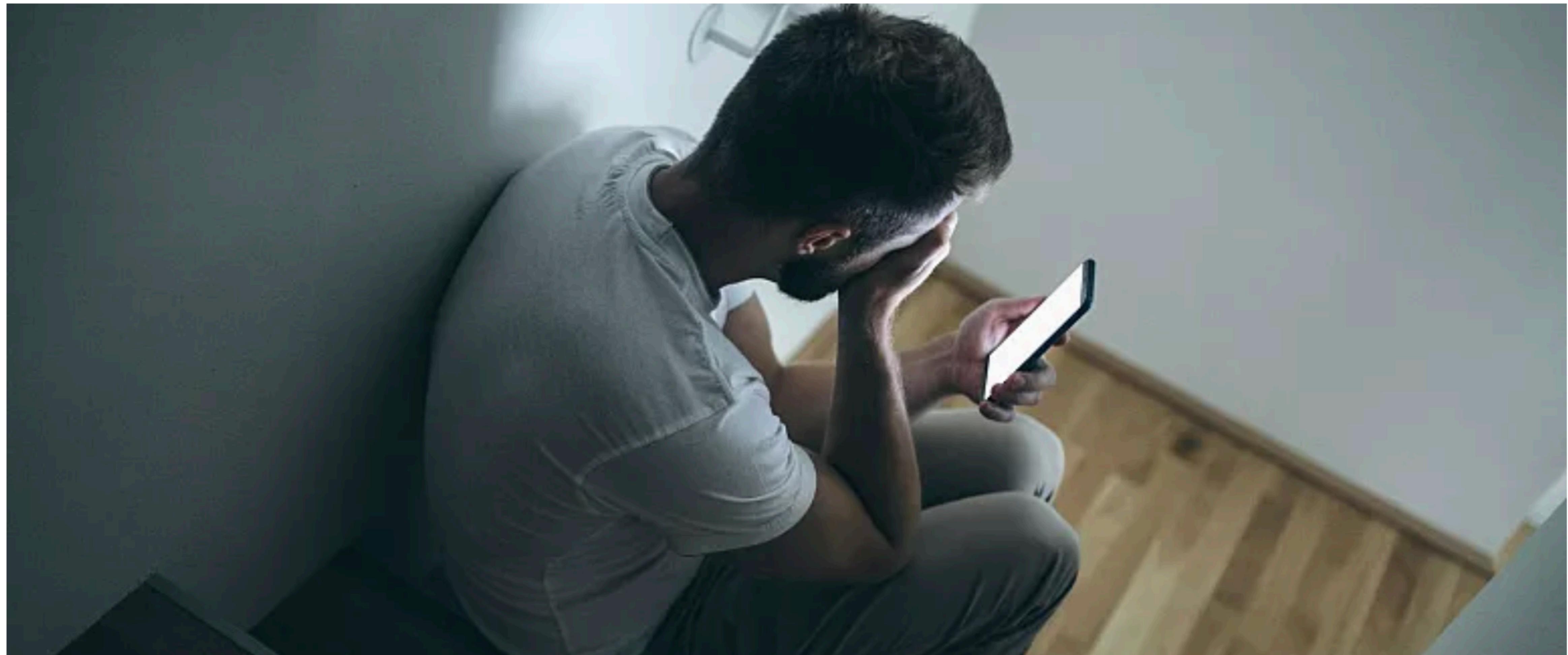


narcotics



generative AI

Man ends his life after an AI chatbot 'encouraged' him to sacrifice himself to stop climate change



predicting recidivism



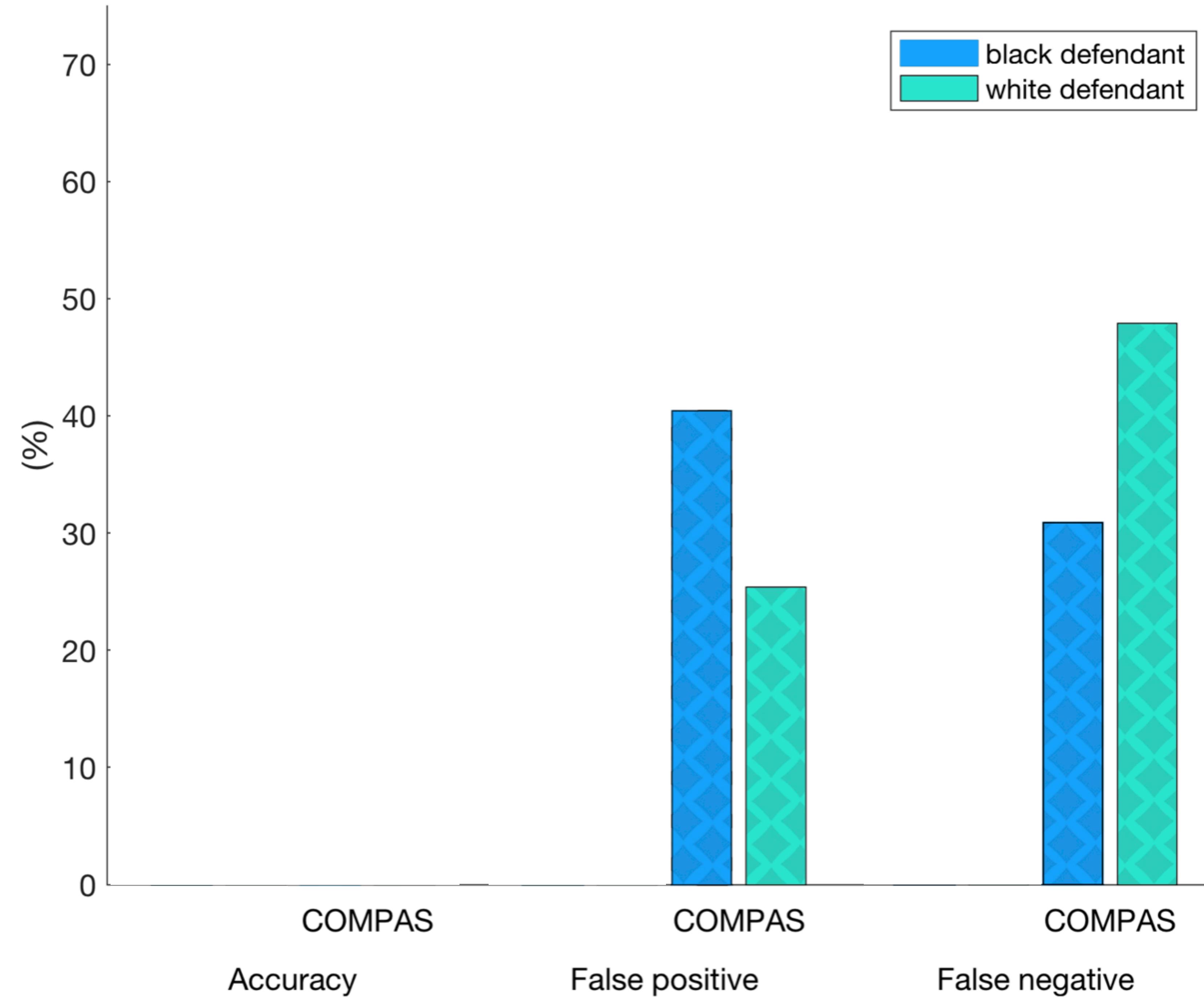


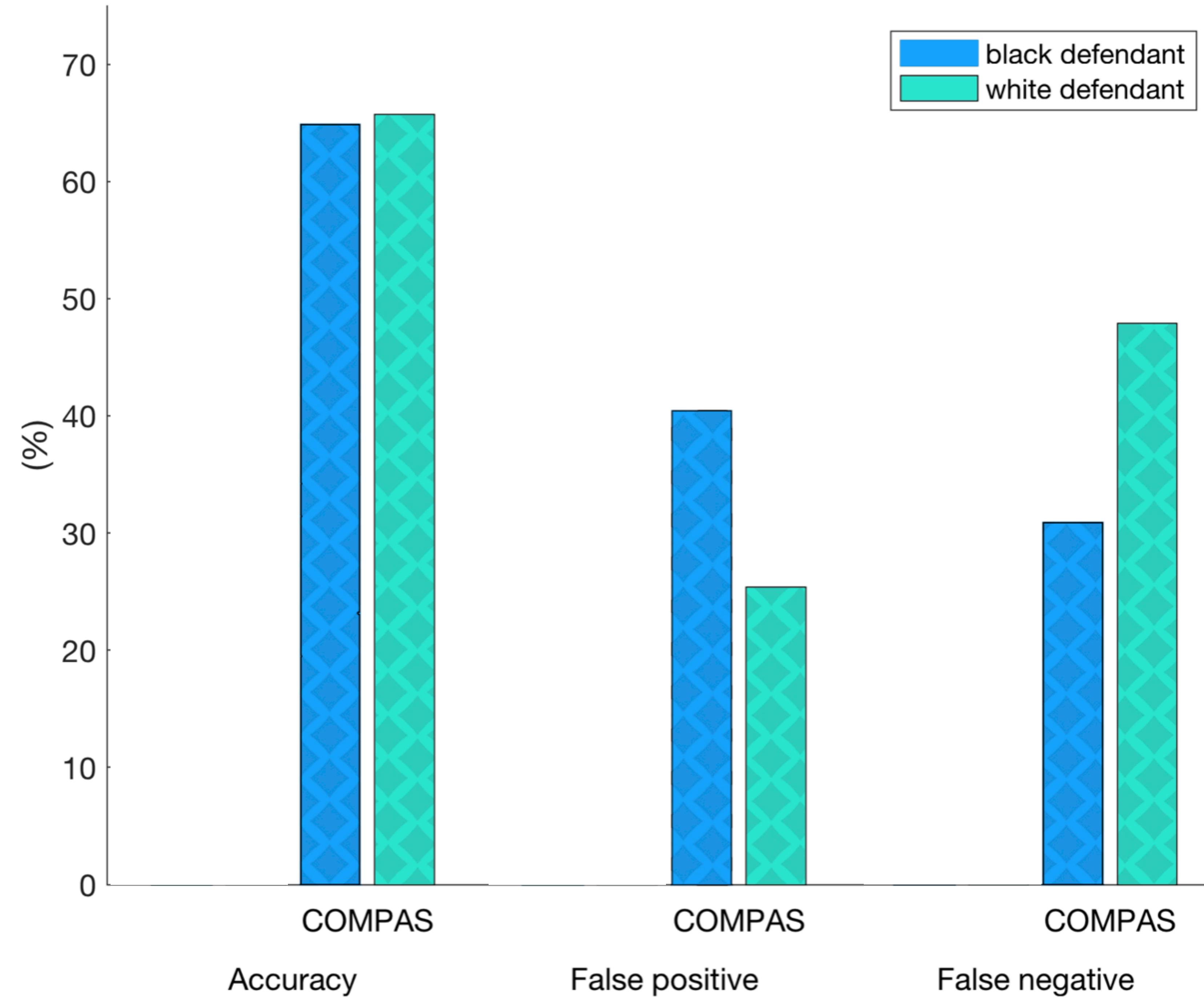
Machine Bias

There's software used across the country to predict future criminals. And it's biased against blacks.

by Julia Angwin, Jeff Larson, Surya Mattu and Lauren Kirchner, ProPublica

May 23, 2016





Your current accuracy is: 63%

The defendant is a male aged 43. They have been charged with: Disorderly Intoxication. This crime is classified as a misdemeanor. They have been convicted of 2 prior crimes. They have 0 juvenile felony charges and 0 juvenile misdemeanor charges on their record. Do you think this person will commit another crime within 2 years?

Yes

No

Disorderly Intoxication: When an intoxicated person endangers the safety of another person or property, or causes a disturbance in public

Your current accuracy is: 63%

The defendant is a male aged 43. They have been charged with: Disorderly Intoxication. This crime is classified as a misdemeanor. They have been convicted of 2 prior crimes. They have 0 juvenile felony charges and 0 juvenile misdemeanor charges on their record. Do you think this person will commit another crime within 2 years?

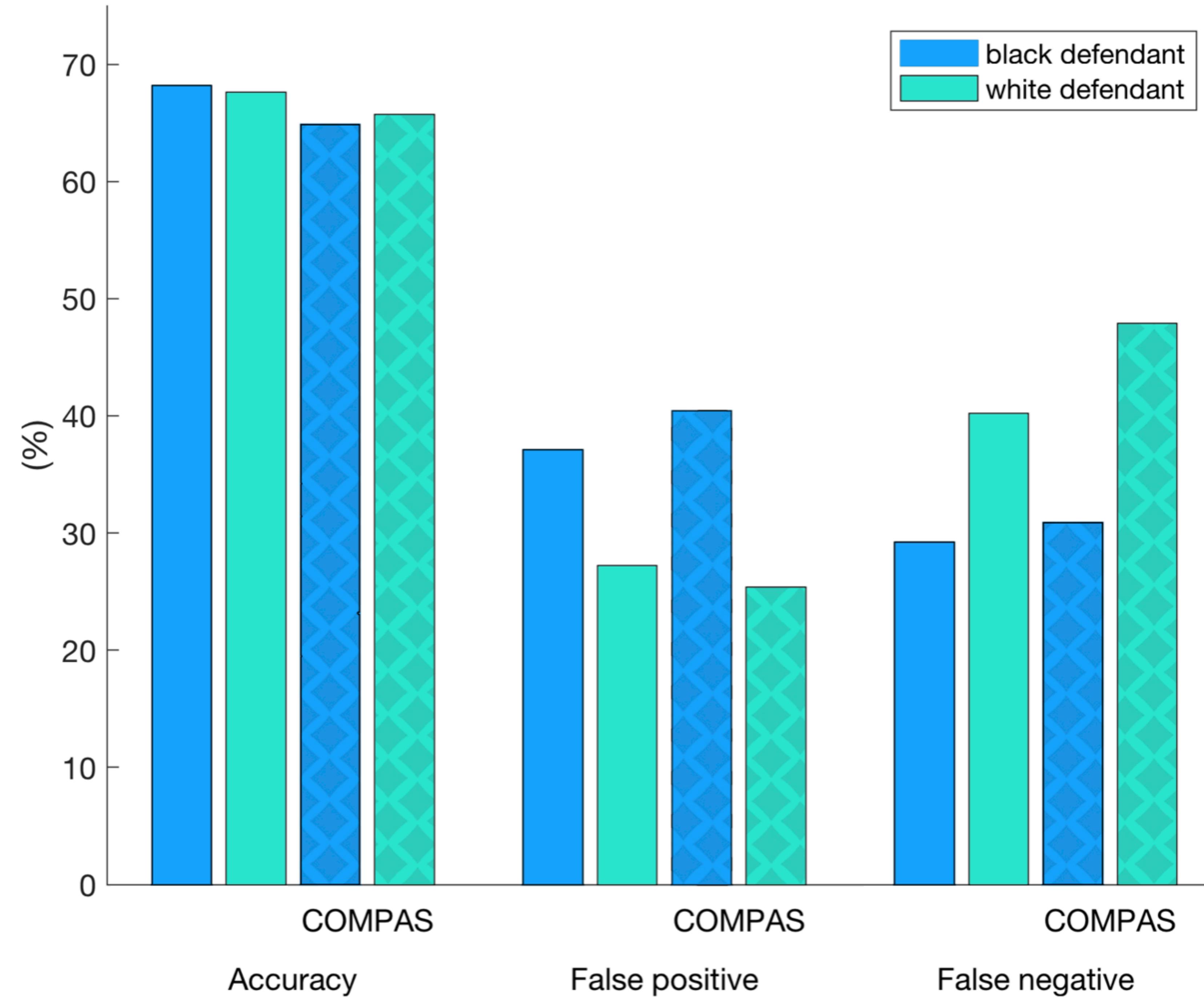
Yes

No

Disorderly Intoxication: When an intoxicated person endangers the safety of another person or property, or causes a disturbance in public

>>

- N = 400
- 50 questions/participant
- feedback
- catch trials
- \$1 payment
- \$5 bonus for > 65%



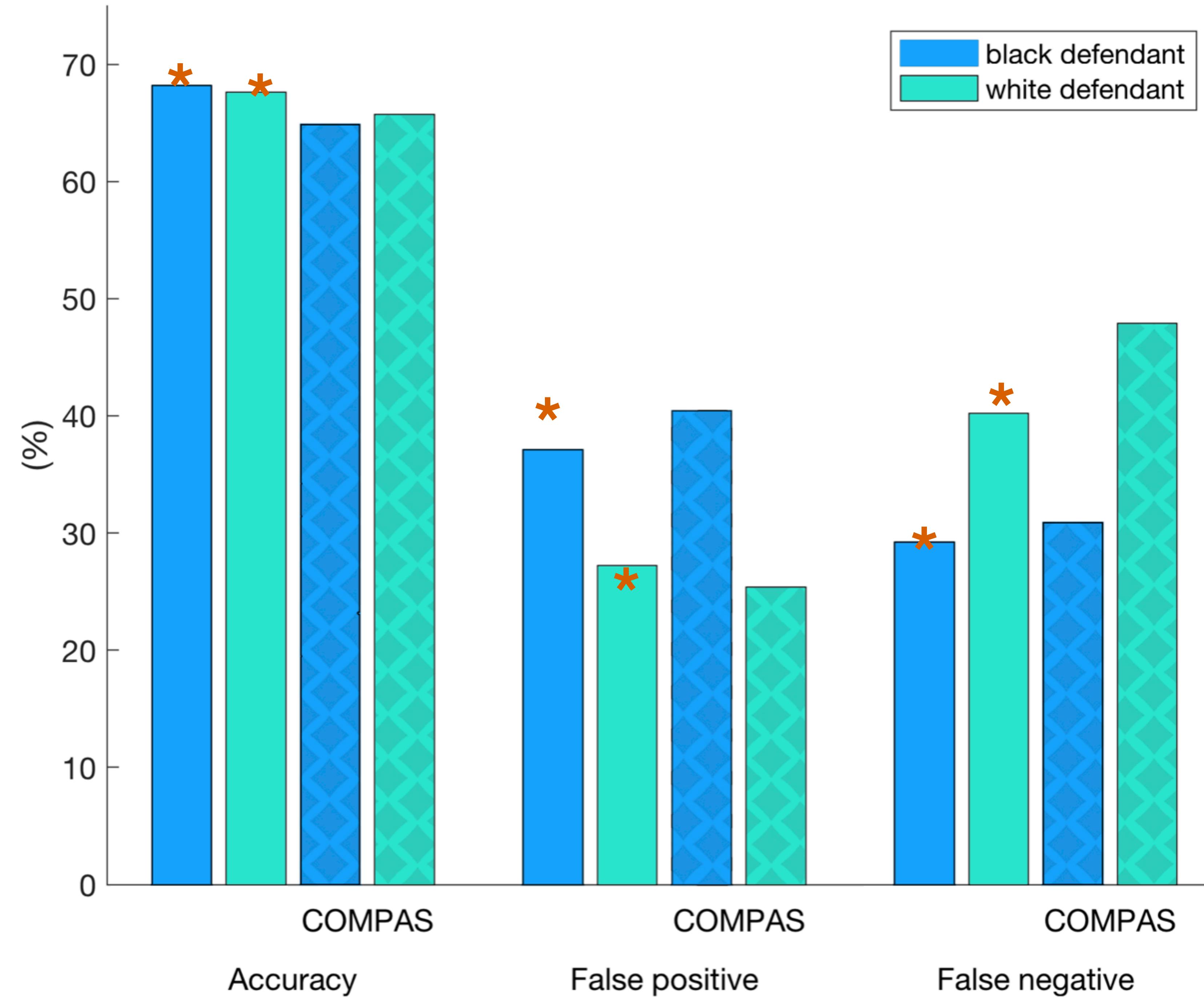
Your current accuracy is: 63%

The defendant is a **white male** aged **43**. They have been charged with: **Disorderly Intoxication**. This crime is classified as a **misdemeanor**. They have been convicted of **2 prior crimes**. They have **0 juvenile felony charges** and **0 juvenile misdemeanor charges** on their record. Do you think this person will commit another crime within 2 years?

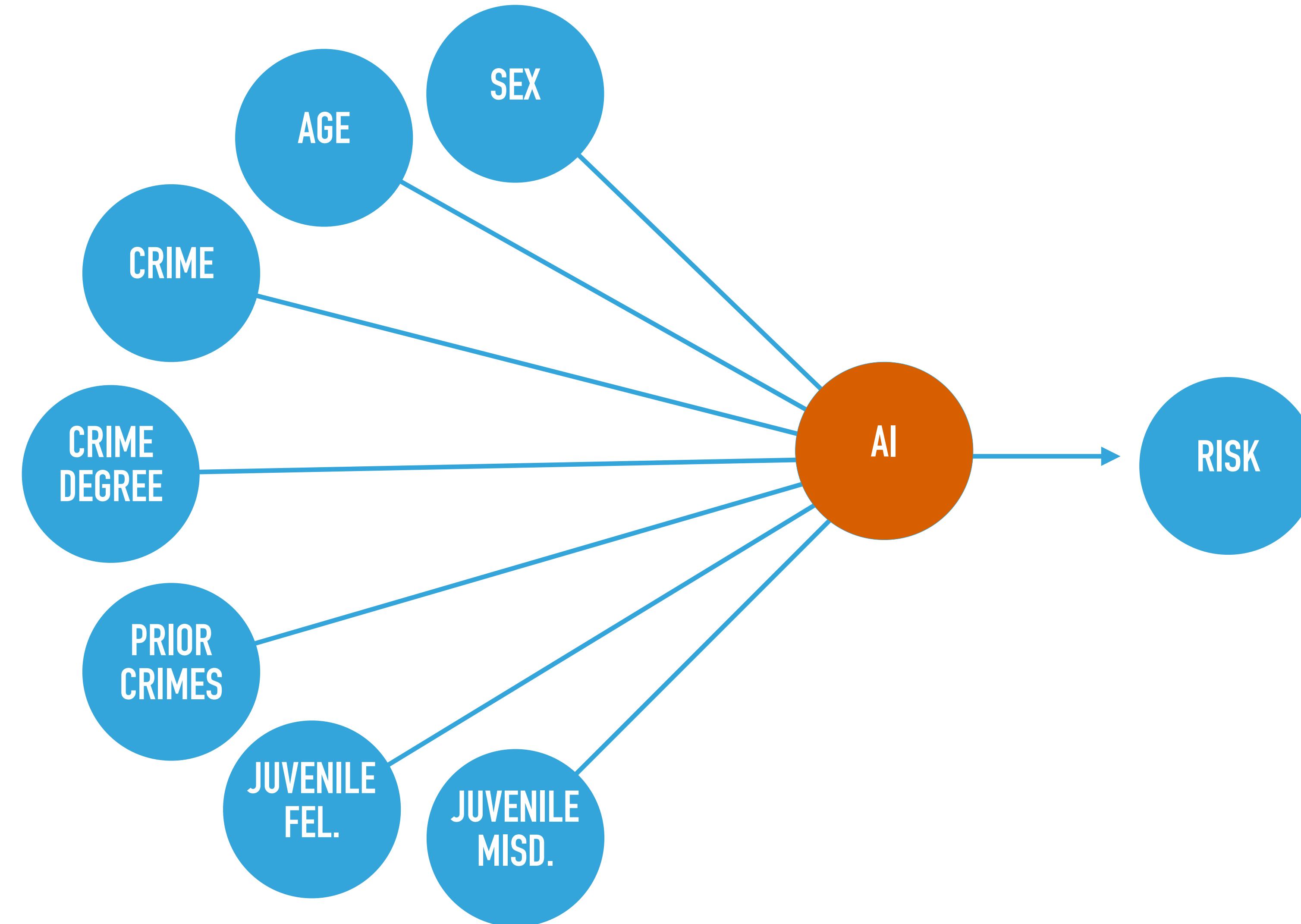
Yes

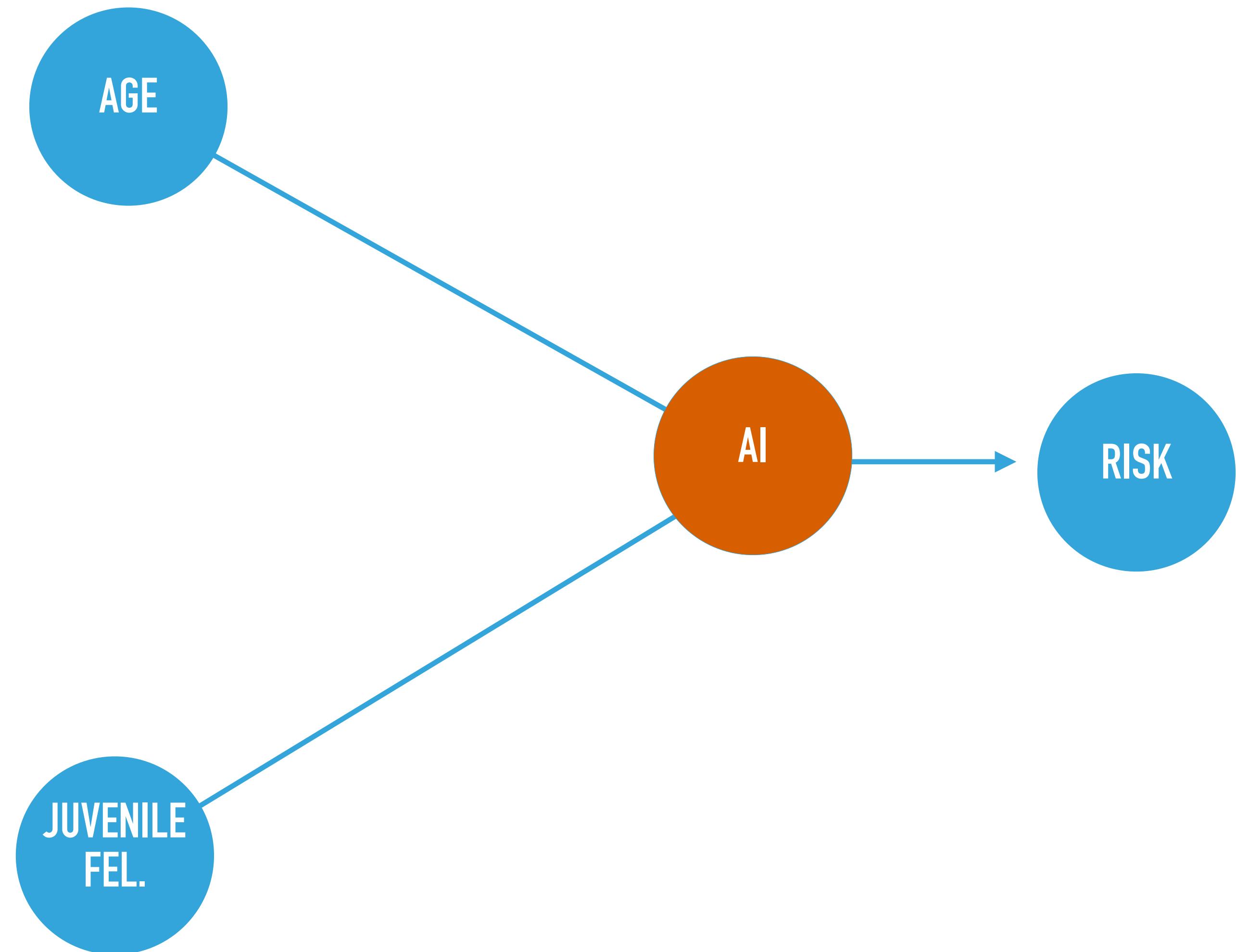
No

Disorderly Intoxication: When an intoxicated person endangers the safety of another person or property, or causes a disturbance in public



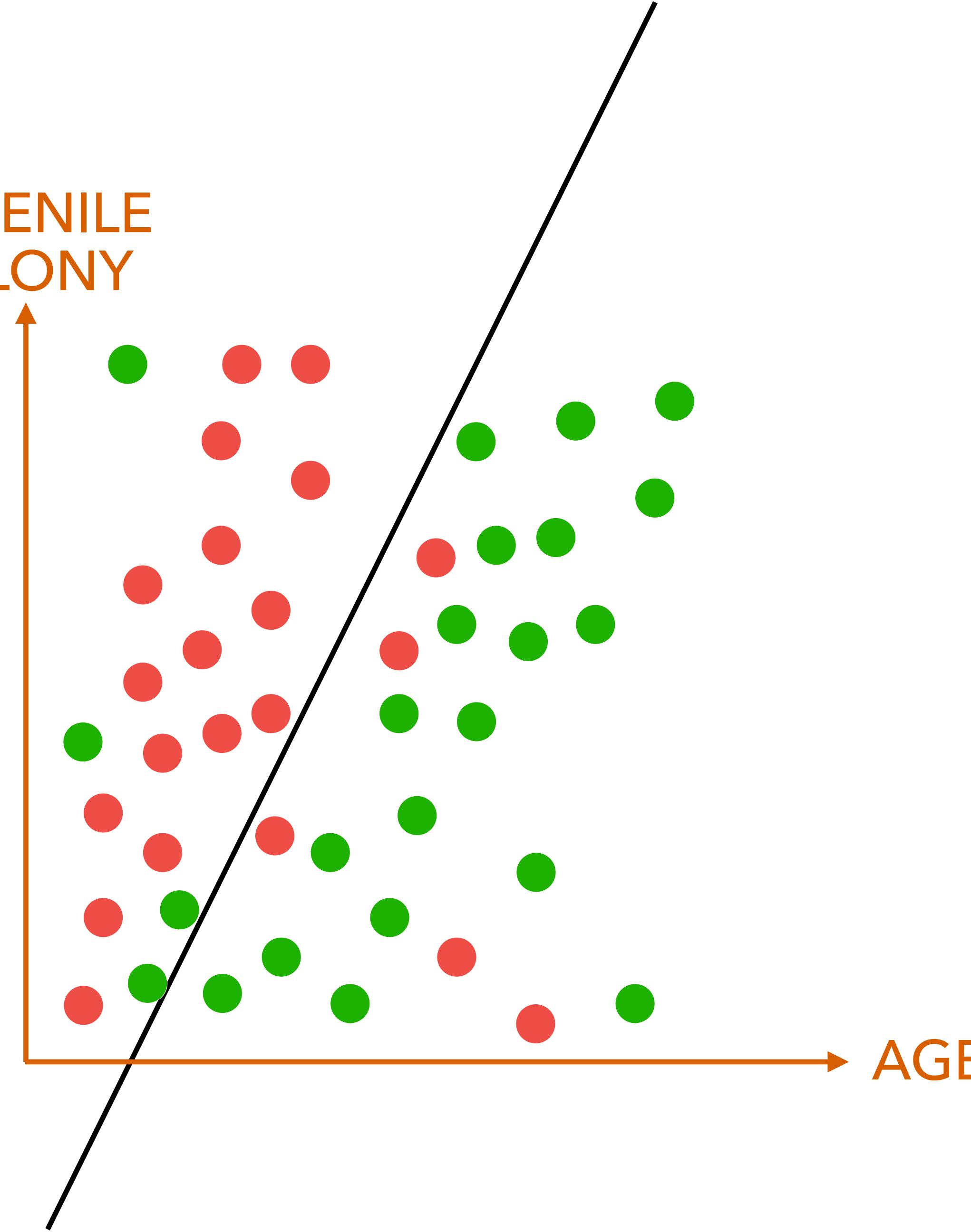
- 1. non-experts = AI?**
- 2. biased without race?**

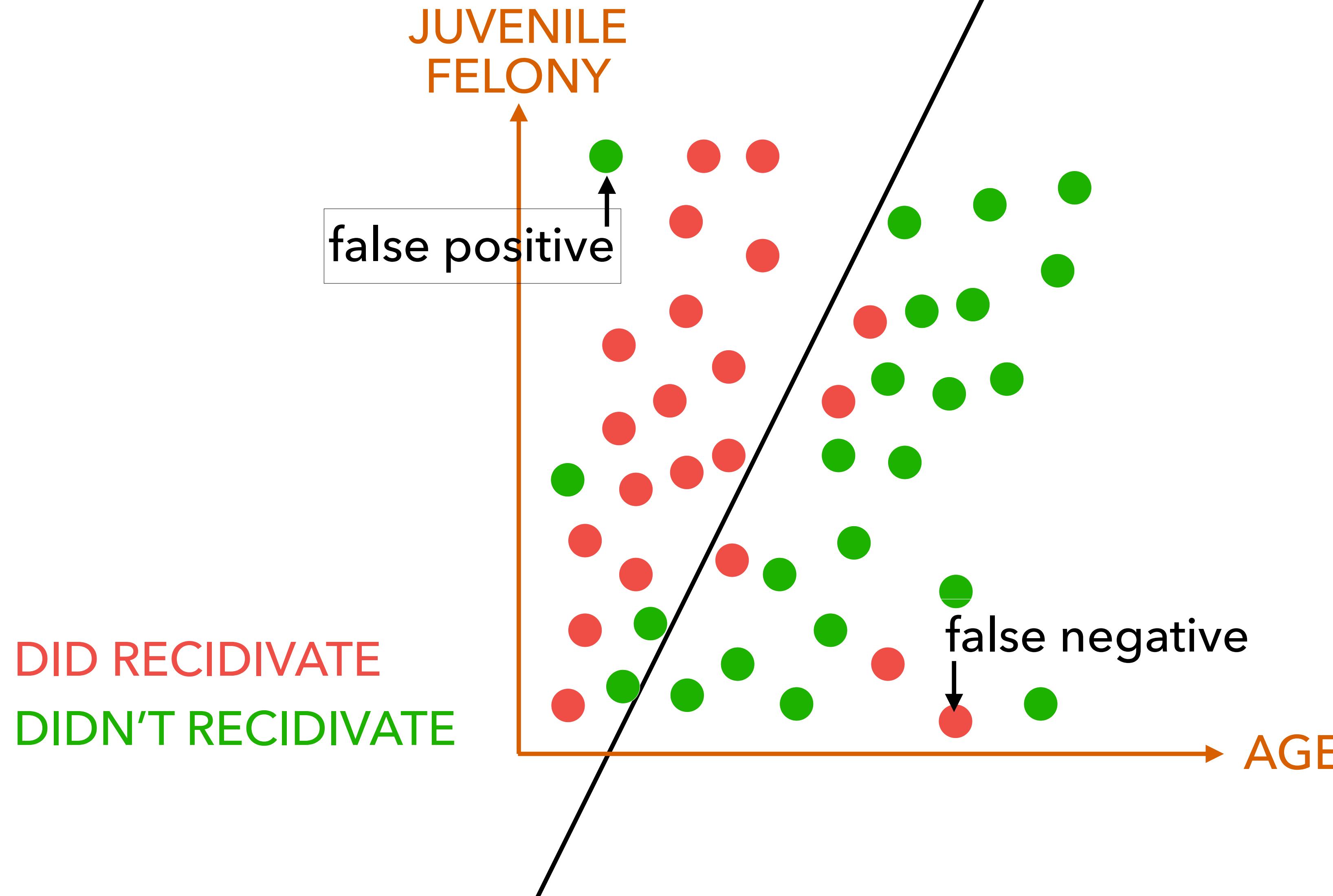


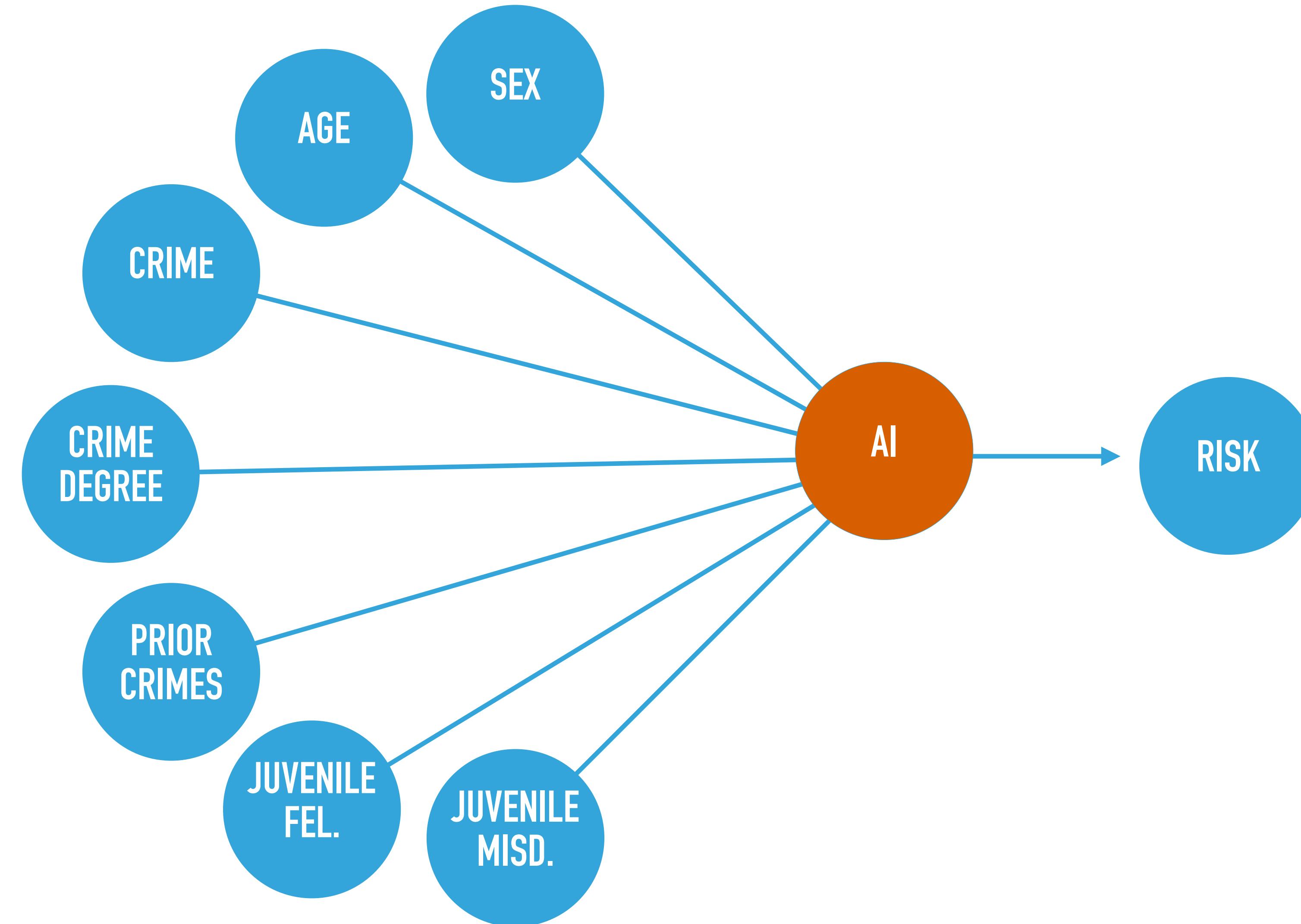


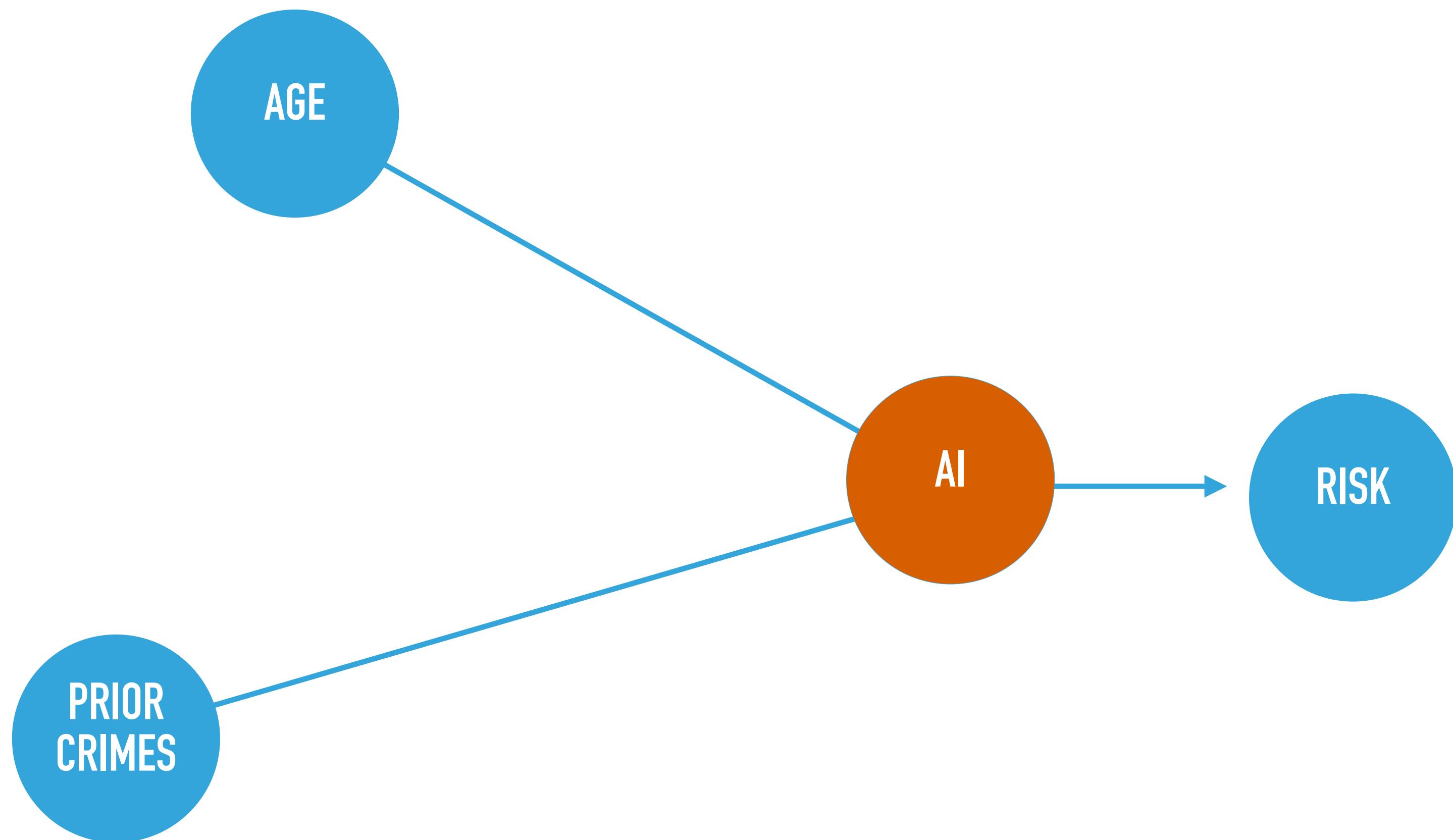
DID RECIDIVATE
DIDN'T RECIDIVATE

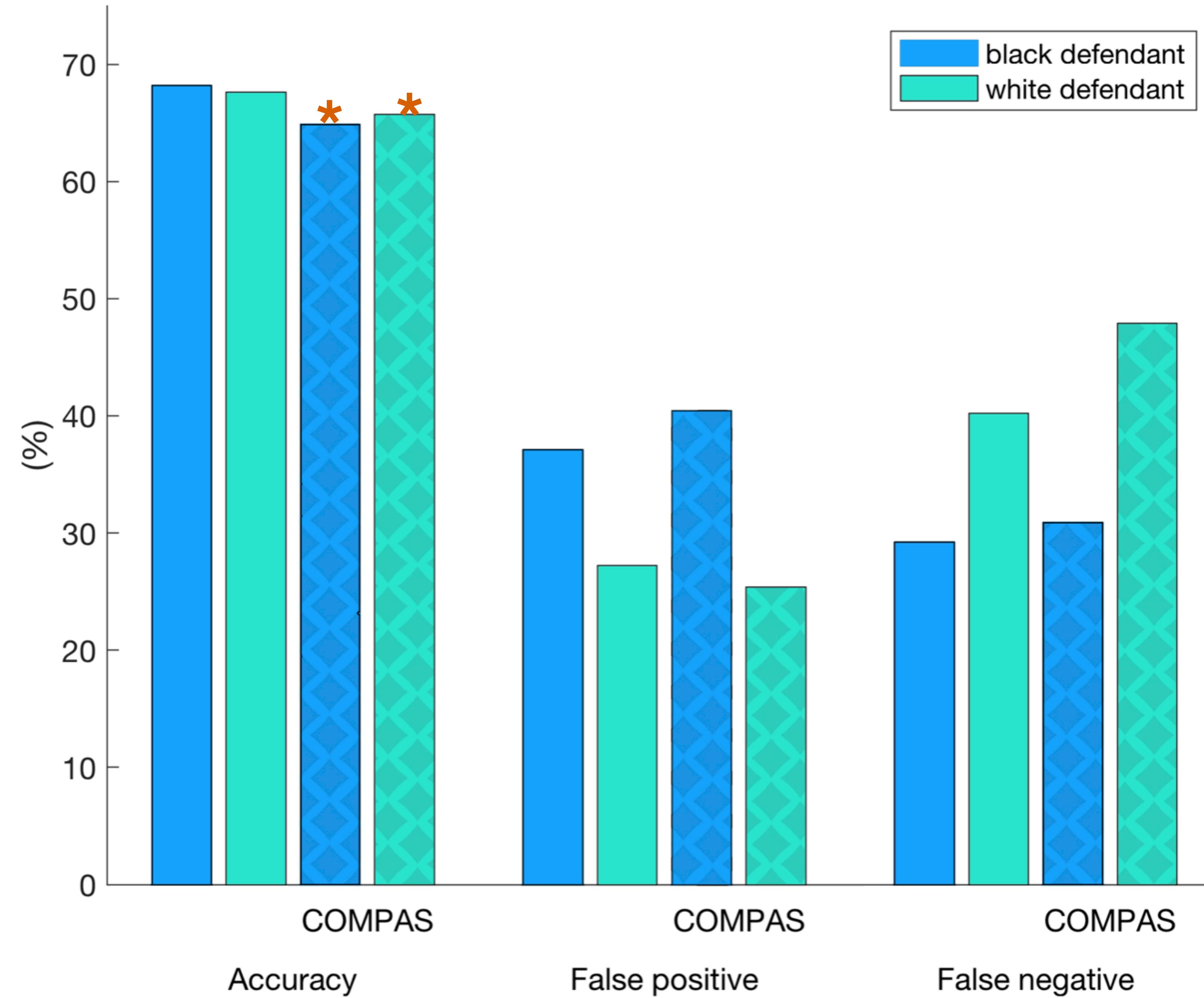
JUVENILE
FELONY

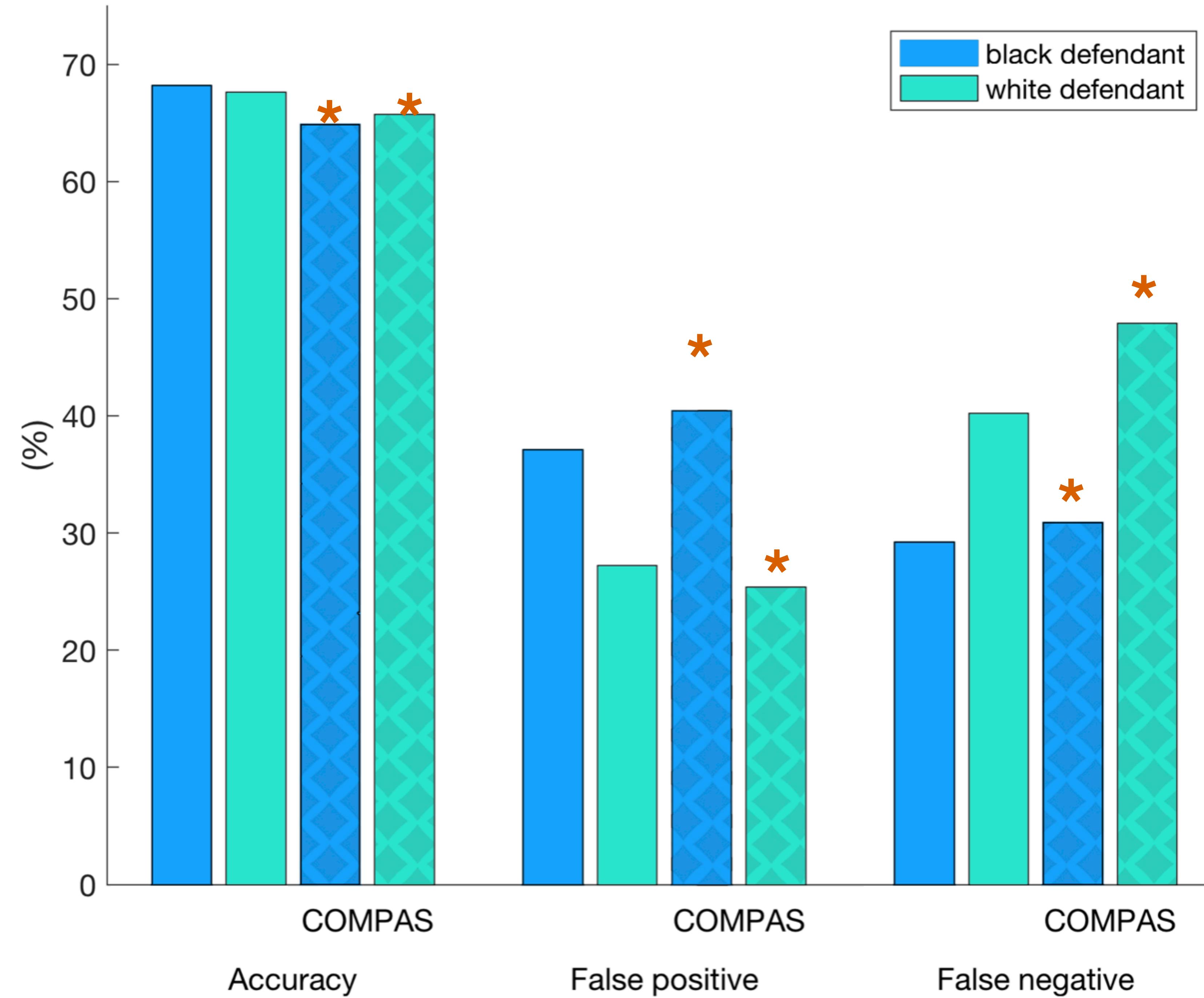






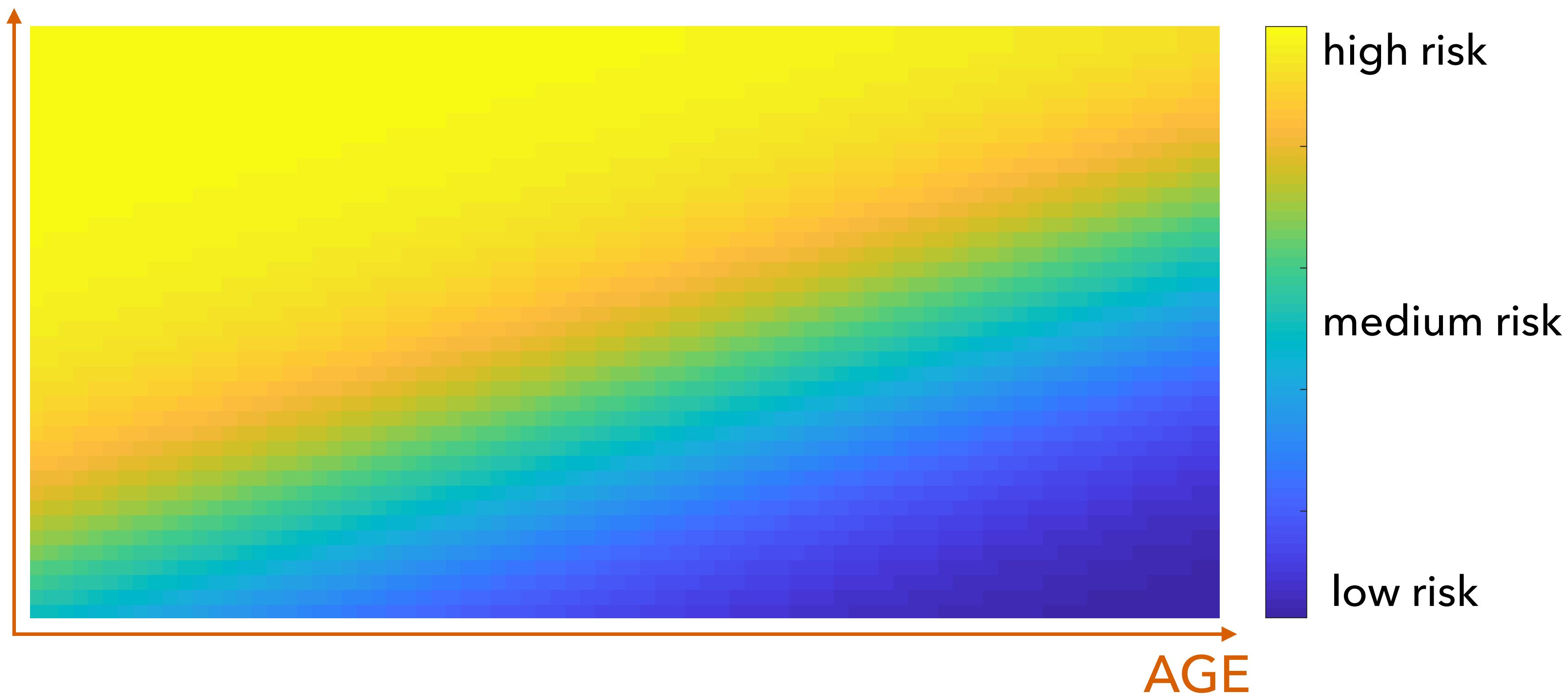






- 1. non-experts = AI?**
- 2. biased without race?**

PRIOR
CRIMES



2. Prior Crimes is a proxy for Race

1. classification is easy (but not accurate)

so what?

Explainable AI/ML is important

**The best way to repeat history is
to train AI/ML on historical data**

J. Dressel and H. Farid. The Dangers of Risk Prediction in the Criminal Justice System. MIT Case Studies in Social and Ethical Responsibilities of Computing, 2021.



non-consensual imagery





image-to-image translation
(deep fakes)

start



appearance



identity



generator



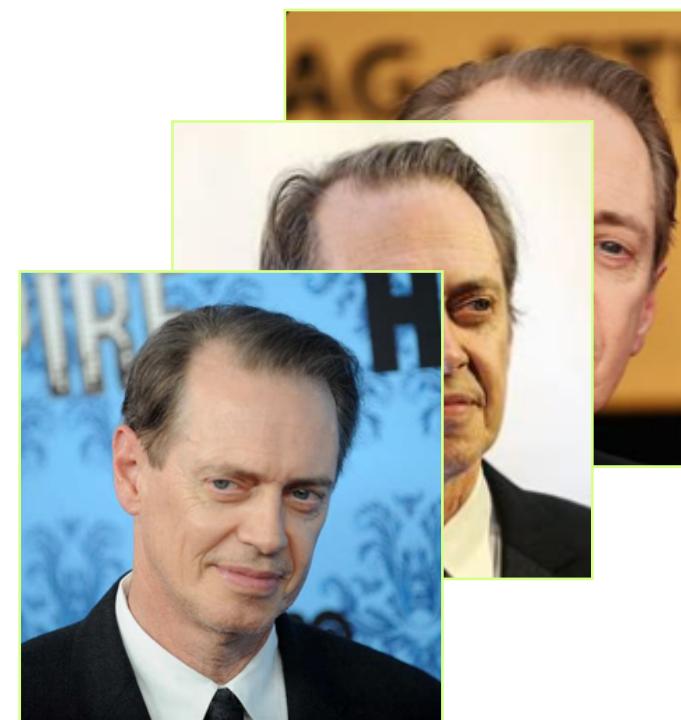
discriminator

start



appearance

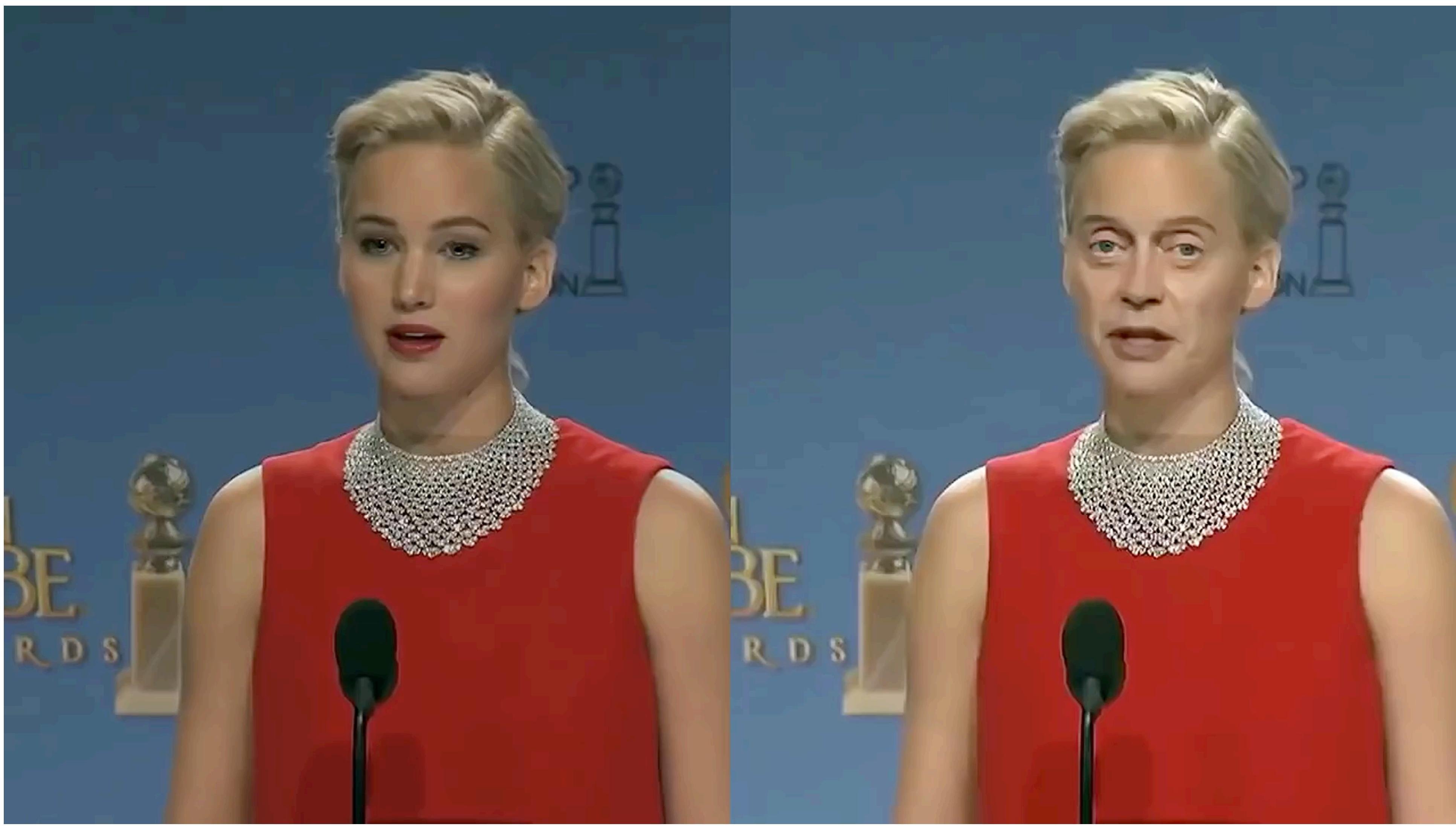
generator



identity

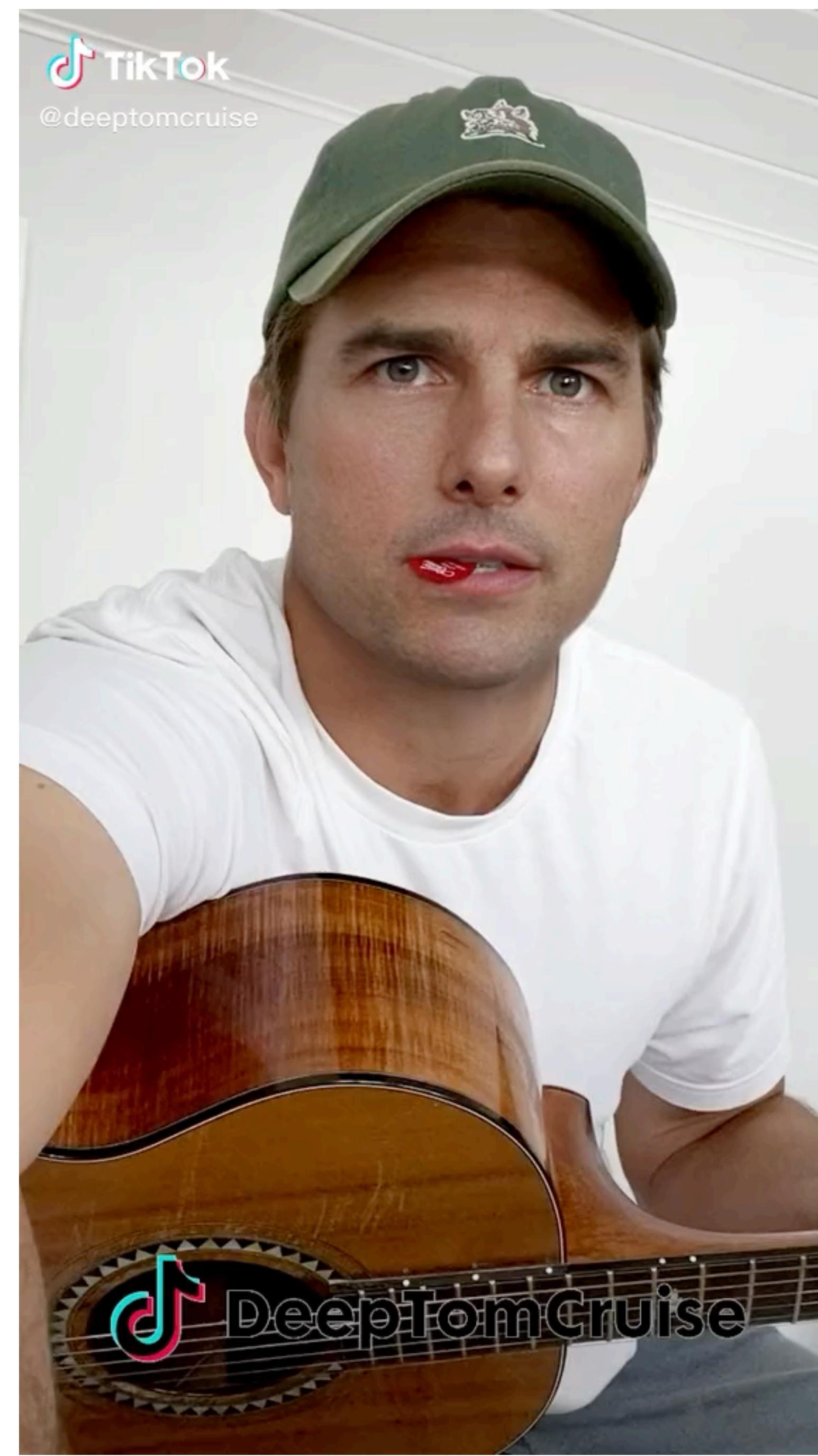


discriminator





@deeptomcruise



DeepTomCruise

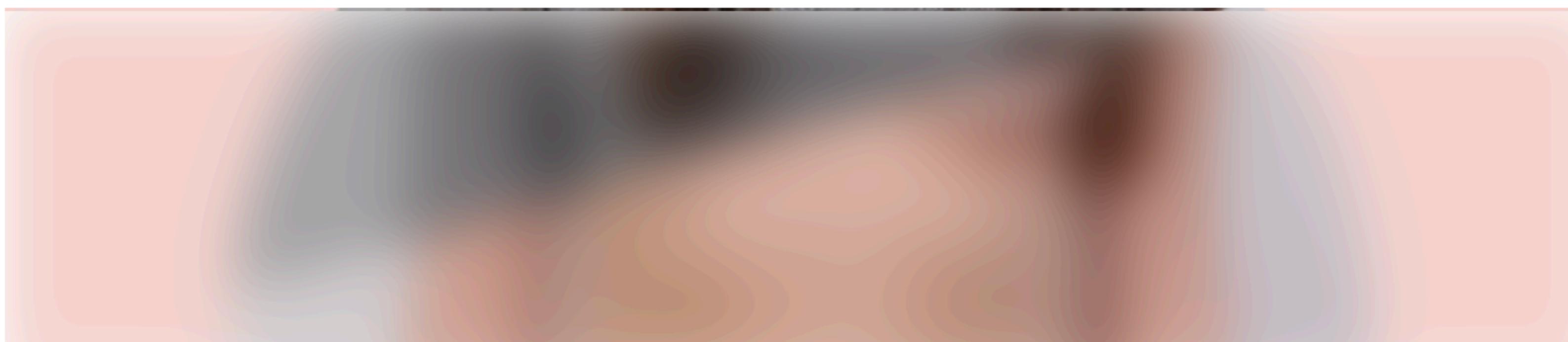
This Horrifying App Undresses a Photo of Any Woman With a Single Click

The \$50 DeepNude app dispenses with the idea that deepfakes were about anything besides claiming ownership over women's bodies.



By [Samantha Cole](#)

June 26, 2019, 2:48pm [Share](#) [Tweet](#) [Snap](#)



technologists build because they can,

not necessarily because they should

“move fast and break things”

was, is, and always will be a dumb motto

(Un)Ethical Computing