



Facial Recognition **FAILS** on Race

By Steve Lohr

Facial-recognition technology is improving by leaps and bounds, but commercial software can miss half its grade of a person in a photograph.

Which person in the photo is a white man, the other's right 90 percent of the time.

For the better or ill, the more common white — up to 80 percent for images of darker-skinned women, according to a new study that breaks down general by assessing how the technology works on people of different ages and genders.

Two disparate results, calculated by Jay Byrd, a researcher at the MIT Media Lab, show how wrong of the time in the real world can any face-artificial software, the computer systems that inform law-enforcement.

In order to test intelligence, data sets, A.I. software is only as smart as the data used to train it. If there are more white men than black women in its data, it will be more at identifying the first man.



The new study also raises questions of fairness when it comes to artificial intelligence as a tool. The literature is not uniform on the technology is being used. Today, facial-recognition software is being applied to computers in various ways, including being used to grade photos based on social-media posts.

"One widely used facial-recognition data set was estimated to be more than 75 percent male and more than 80 percent white, according to another research study."

But companies are also experimenting with face identification and other A.I. technology as an input to decisions with higher stakes like hiring and lending.

Researchers at the Georgetown Law School estimated that 117 million American adults are in face-recognition networks used by law enforcement — and that African Americans were more likely to be singled out, because they were disproportionately represented in mugshot databases. Facial-recognition technology is tightly regulated in the

"This is the right time to be addressing how these A.I. systems work and where they fail — to make them socially accountable," said Sarah Madbouh, a professor of computer science at the University of Utah.

Used more, there was anecdotal evidence of computer vision errors, and occasionally in ways that suggested discrimination. In 2015, for example, Google had to apologize after its image-recognition photo app initially labeled African Americans as "gorillas."



Logan Bruner

Fall 2020

BFA Portfolio - Graphic Design

Department of Art and Art History

Artist Statement:

I use art as a way to help people. By creating designs for clients, I am able to express myself while benefiting others. To find inspiration, I look to my love for music. By listening to a song, I can transform rhythm and lyrics into a visual work. I gain a lot of inspiration from a variety of other artists, such as Saul Bass, who has led me to using warm background colors in my digital illustrations.

I plan to explore many illustration styles and continue to create innovative work as my career progresses. My goal is to capture the maximum amount of information into a work with as much simplicity as possible. I like to keep my creations simple, whimsical, and playful. Combining and experimenting with new techniques allows me to create a style of my own.

My goal is to create designs that resonate with people emotionally. Whether this be moving others to act on an exigent cause, or to get people excited for an artist's upcoming concert. If I can do this, then I am doing my job well.

- Logan Bruner, Fall 2020

Title**Original Format**

Figure 1: Access Vote Campaign Logo	Illustrator, 11 in x 17 in
Figure 2: Access Vote Application	Photoshop and Illustrator, 11 in x 17 in
Figure 3: Local App Logo	Illustrator, 11 in x 17 in
Figure 4: Local App Application 1	Photoshop and Illustrator, 11 in x 17 in
Figure 5: Local App Application 2	Photoshop and Illustrator, 11 in x 17 in
Figure 6: The Secret Life of Color Book Redesign	Photoshop and Illustrator, 11 in x 17 in
Figure 7: Facial Recognition Fails on Race Article Spread	Photoshop and Illustrator, 11 in x 17 in
Figure 8: Rebirth (2016) Animation (Screenshot)	After Effects, 1920 px x 1080 px
Figure 9: Holy Fuck Podcast Rebrand Logo	Illustrator, 17 in by 11 in
Figure 10: Holy Fuck Podcast Episode 1 Illustration	Illustrator, 17 in by 11 in
Figure 11: Holy Fuck Podcast Episode 2 Illustration	Illustrator, 17 in by 11 in



Figure 1: Access Vote Campaign Logo



Figure 2: Access Vote Application



Figure 3: Local App Logo

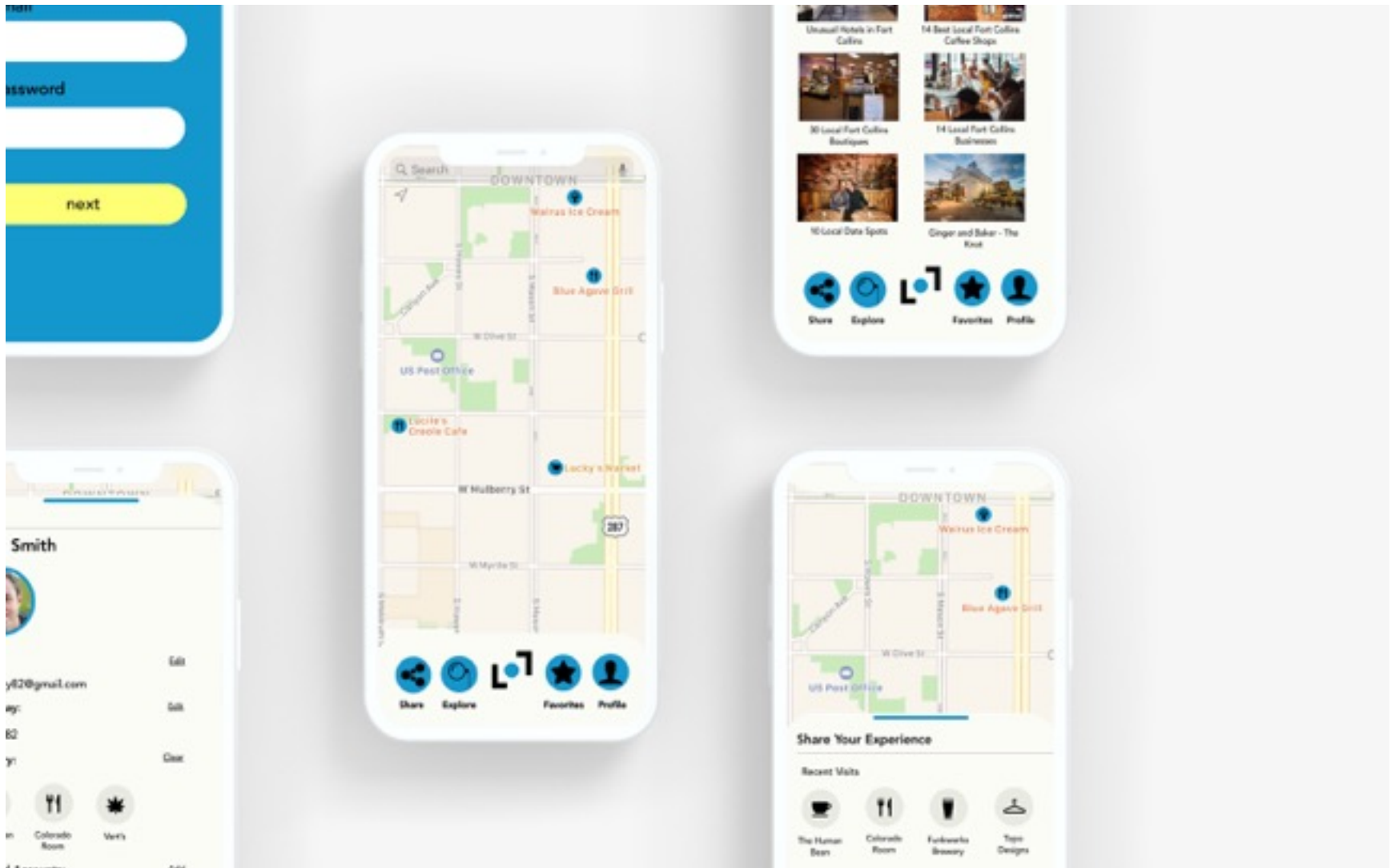


Figure 4: Local App Application 1



Figure 5: Local App Application 2



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Facial-recognition technology is improving by leaps and bounds, but commercial software can miss out its grade of a person in a photograph.

Which person in the photo is a white man, the other's right the person of the line.

In a lab for this, the more serious when — up to work figures for images of darker-skinned women, according to a new study that looks back ground by testing how the technology works on people of different ages and genders.

The disparate results, calculated by Jay Bystronski, a researcher at the MIT Media Lab, show how some of the lines in the real world can vary into artificial software. In computer systems that before face-recognition.

In order to build intelligent, data-rich, A.I. software is only as smart as the data used to train it. If the set of data used to train more than black women in the case, it will be worse at identifying the first ones.



The study also raises questions of fairness and accuracy in artificial intelligence as a time when investment and adoption of the technology is rising. Today, facial-recognition software is being deployed by companies in various ways, including using image-prediction (based on social-media profiles).

“One widely used facial-recognition data set was estimated to be more than 75 percent male and more than 80 percent white, according to another research study.”

But companies are also experimenting with face identification and other A.I. technology as an input device to automated decisions with higher stakes like hiring and lending.

Researchers at the Georgetown Law School estimated that 117 million American adults use in face-recognition networks used by law enforcement — and that African Americans were more likely to be singled out, because they were disproportionately represented in stop-and-frisk decisions. Facial-recognition technology is tightly regulated in law.

“This is the right time to be addressing how these A.I. systems work and where they fail — to make them socially accountable,” said Harsh Mehta, a professor of computer science at the University of Utah.

Until now, there was anecdotal evidence of computer vision misfires, and occasionally it was that suggested discrimination. In 2015, for example, Google had to apologize after its image-recognition photo app initially labeled African Americans as “gorillas.”



Figure 6: The Secret Life of Color Book Redesign

Figure 7: Facial Recognition Fails on Race Article Spread

Figure 8: Rebirth (2016) Animation (Screenshot)

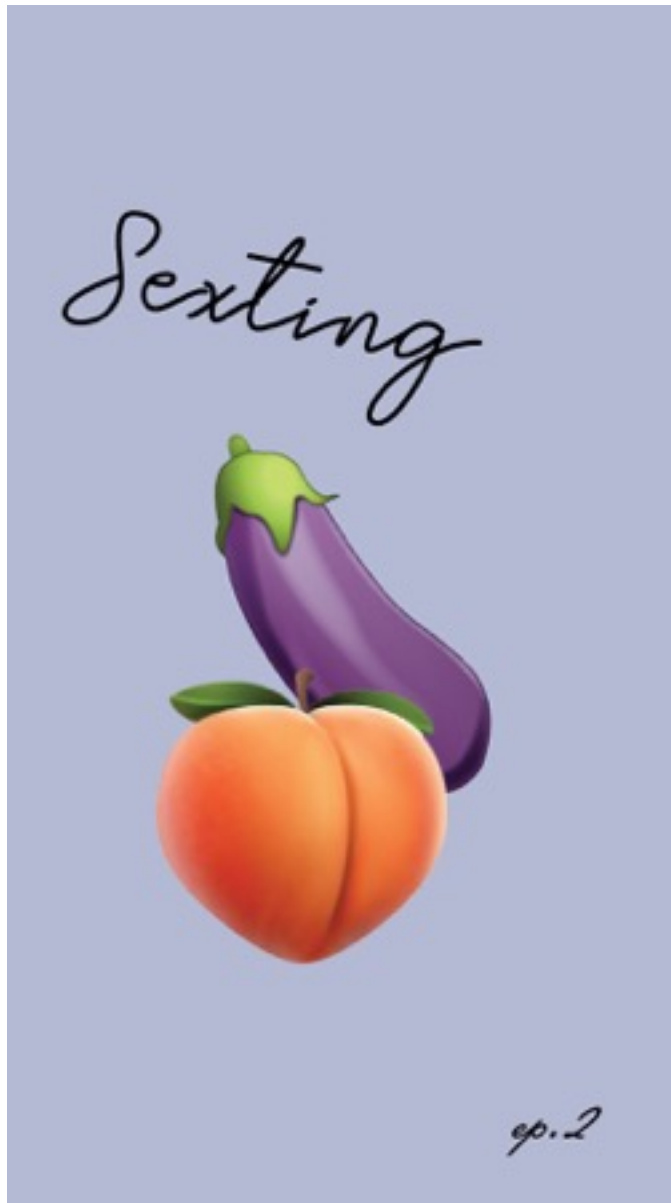
<https://vimeo.com/487855047>



Figure 9: Holy Fuck Podcast Rebrand Logo



Figure 10: Holy Fuck Podcast Episode 1
Illustration



**Figure 11: Holy Fuck Podcast Episode 2
Illustration**