# Navigating Bias in Artificial Intelligence

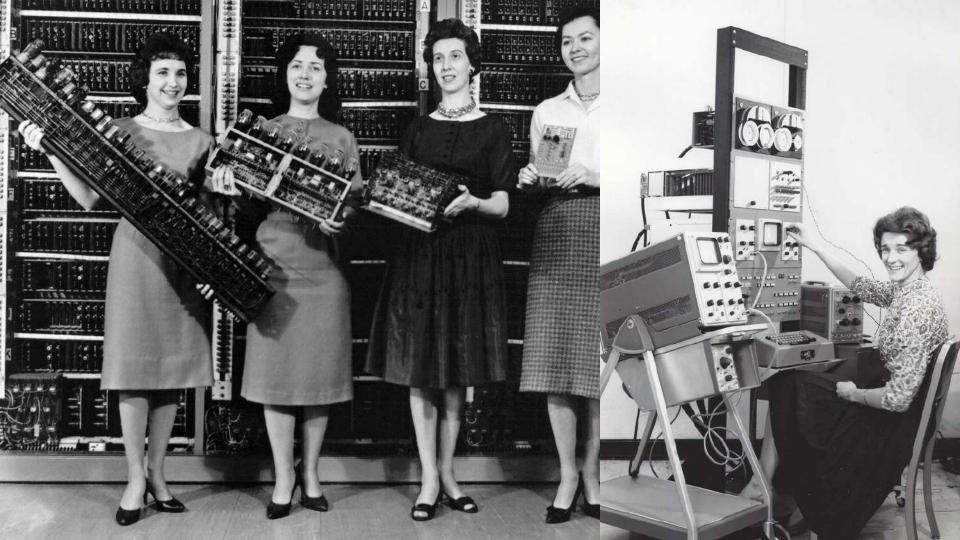
Karen De Sousa Pesse



#### Types of bias in research

From sources across the web

Recall bias	~	Response bias	<b>~</b>	Confirmation bias	<b>Y</b>
Publication bias	<b>~</b>	Sampling bias	~	Attrition bias	<b>~</b>
Selection bias	~	Social desirability bias	~	Research	~
Acquiescence bias	~	Survivorship bias	~	Undercoverage bias	<b>Y</b>
Extreme responding	~	Ascertainment bias	~	Observation	~
Courtesy bias	<b>~</b>	Demand characteristics	<b>~</b>	Halo effect	~
Hawthorne effect	~	Sponsor	~	Availability heuristic	~
Culture	*	Framing effect	~	Habituation	~







## The Computer Girls BY LOIS MANDEL

A trainee gets \$8,000 a year ...a girl "senior systems analyst" gets \$20,000—and up!

Twenty years ago, a girl could be a secretary, a school teacher . . . maybe a librarian, a social worker or a nurse. If she was really ambitious, she could go into the professions and compete with men . . . usually working harder and longer to earn less pay for the same job.

Now have come the big, dazzling computers—and a whole new kind of work for women: programming. Telling the miracle machines what to do and how to do it. Anything from predicting the computer can solve a problem, and then instruct the machine to do it."

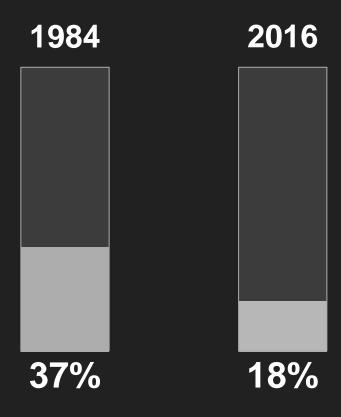
"It's just like planning a dinner," explains Dr. Grace Hopper, now a staff scientist in systems programming for Univac. (She helped develop the first electronic digital computer, the Eniac, in 1946.) "You have to plan ahead and schedule everything so it's ready when you need it. Programming requires patience and the ability to handle detail. Women are 'naturals' at computer programming."







U.S. EMPLOYMENT SERVICE



## QUIZ

#### Columbia University, founded in 1754, started accepting women in

1847	1920
1964	1983

#### Columbia University, founded in 1754, started accepting women in



1983

#### When was the first female crash test dummy created:

1949	1998
2009	2023

#### When was the first female crash test dummy created:



Astrid Linder, Swedish National Road an d Transport Research Institute (VTI)

2023

When did women participation became mandatory in clinical trials in the US National Institute of Health?

1927	1987
1953	1994

When did women participation became mandatory in clinical trials in the US National Institute of Health?



Cardiologist **Bernadine Healy**, first woman to direct the National Institute of Health in 1991 1994

Ps.: NIH was founded in the late 1880s





## 73% SERIOUSLY INJURED

## 17% MORE LIKELY TO DIE



## 32% MORE LIKELY TO DIE

### 1.3 MILLION PATIENTS

### **3000 SURGEONS**



#### 

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## @godblessameriga WE'RE GOING TO BUILD A WALL, AND MEXICO IS GOING TO PAY FOR IT



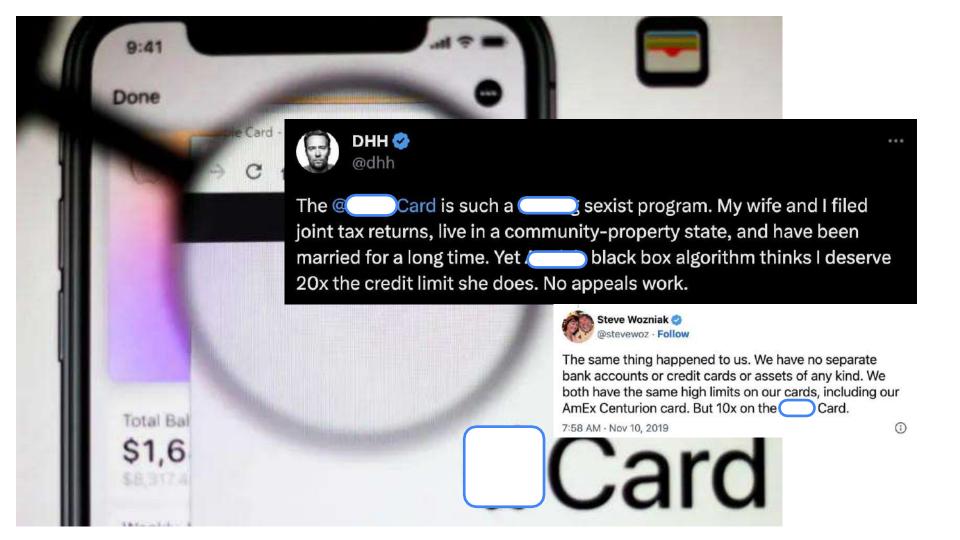




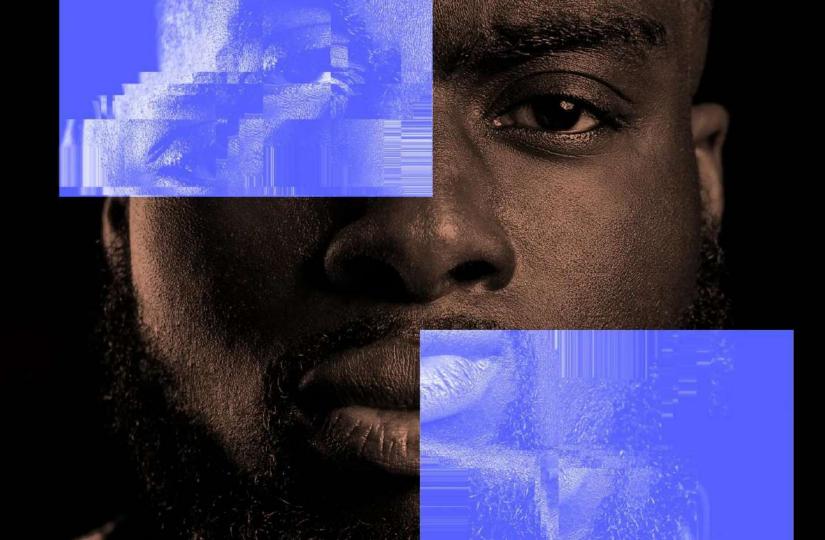
@UnkindledGurg @PooWithEyes chill im a nice person! i just hate everybody

24/03/2016, 08:59









## Misclassified almost twice as many black defendants (45%) as higher risk

compared to white defendants (23%)

Mistakenly labeled more white defendants as low risk, who then went on to reoffend – 48% white defendants compared to 28% black defendants

- 77% more likely than white defendants.

Classified black defendants as higher risk

when all other variables (such as prior

crimes, age, and gender) were controlled

