

September 2020

# The Role of Testing in an AI Future

Keeping Artificial Intelligence on the Rails







### Paper and ink

DefinedCrowd® confidential 2

### A cautionary tale



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### Al is different



- Inputs
- > Outputs
- Data structures
- Computation



### Software



- Raw data
- Labels
- Algorithms
- Patterns
- Feedback loop



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Self-driving cars

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Distances of the

People-counting in a room

### AI is vulnerable to corruption

TECH 03/24/2016 10:19 am ET | Updated Mar 28, 2016

#### **Microsoft Chat Bot Goes On Racist, Genocidal Twitter Rampage**

Seriously? Seriously.

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By Damon Beres



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Here's a clear example of artificial intelligence gone wrong.

Microsoft launched a smart chat bot Wednesday called "Tay." It looks like a photograph of a teenage girl rendered on a broken computer monitor, and it can communicate with people via Twitter, Kik and GroupMe. It's supposed to talk like a millennial teenage girl.

Less than 24 hours after the program was launched, Tay reportedly began to spew racist, genocidal and misogynistic messages to users.





TRENDING



Nevada Gov. Condemns Trump's 'Reckless And Selfish' Indoor Campaign Rally



Bob Woodward Reveals Why He Concluded Trump Is The Vrong Man For The Job'

#### Facial recognition systems show rampant racial bias, government study finds



By Brian Fung, CNN Business Updated 2337 GMT (0737 HKT) December 19, 2019

Washington, DC (CNN Business) - Federal researchers have found widespread evidence of racial bias in nearly 200 facial recognition algorithms in an extensive government study, highlighting the technology's shortcomings and potential for misuse.

Racial minorities were far more likely than whites to be misidentified in the US government's testing, the study found, raising fresh concerns about the software's impartiality even as more government agencies at the city, state and federal level clamor to use it.

#### In a release, Patrick Grother, one of the researchers behind the report, said race-based biases were evident in "the majority of the face recognition algorithms we studied." Compared to their performance against whites, some algorithms were up to 100 times more likely to confuse two different non-white people.



Related Article: ACLU sues federal government over surveillance from facial recognition technology

Asians, blacks and Native Americans were particularly likely to be misidentified, said the National Institute for Standards and Technology, a branch of the Commerce Department, which published the report on Thursday.

In another test, black women were likelier than other groups to be falsely identified in a large database of mugshots maintained by the FBI - offering a glimpse of how the technology could be misused by law

#### Tay the Racist Chatbot by CNN

#### TOP STORIES





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AI in law

Ai in medicine

### Artifical General Intelligence

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Westworld, Credit by **HBO** 

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# Artifical Conscious Intelligence

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