Dr. Joan Palmiter Bajorek

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womeninvoice.org

Dr. Joan Palmiter Bajorek

Technical Work

Researcher

Multimodal Voice Data
Principal Investigator, UArizona
Sr Conversational Exp Designer, Nuance
Head of UX at NLX
Technical Advisor at Startups & Enterprise

Research Publications

Social Impact

Women in Voice
Nonprofit 501(c)(3)
DEI Speaker
#4 Influencer in the
World for Voice AI

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Voice and Conversational AI

Siri

Ok Google

Alexa

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Conversational AI

Input
Spoken Language

Output
Spoken Language

Hardware

Computing
Cloud & Backend

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Across the Stack

Gesture

Computing Power
CPUs

Software

Inputs
Speech Sciences acoustics
Linguistics
Computer Vision
Emotions/Semantic/Behavioral

Hardware

Computing
Cloud & Backend
Machine Learning
Natural Language
Processing (NLP)

Automatic Speech
Recognition (ASR)

Output
Text to Speech (TTS)
Earcons
Sonic Branding and Marketing
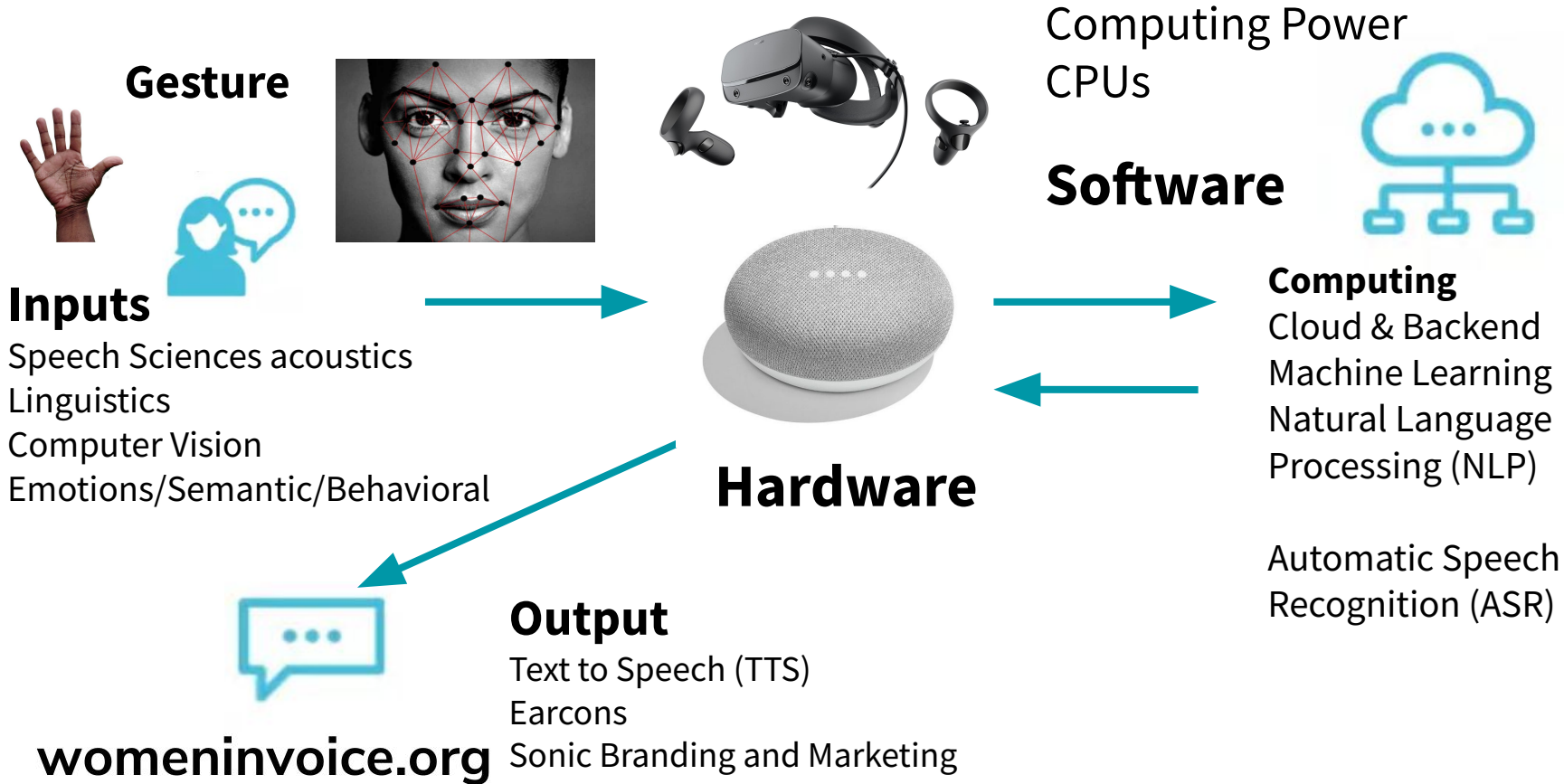
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What is Natural Language Processing (NLP)?

Organizing Human Language in sophisticated, data-driven, computational ways
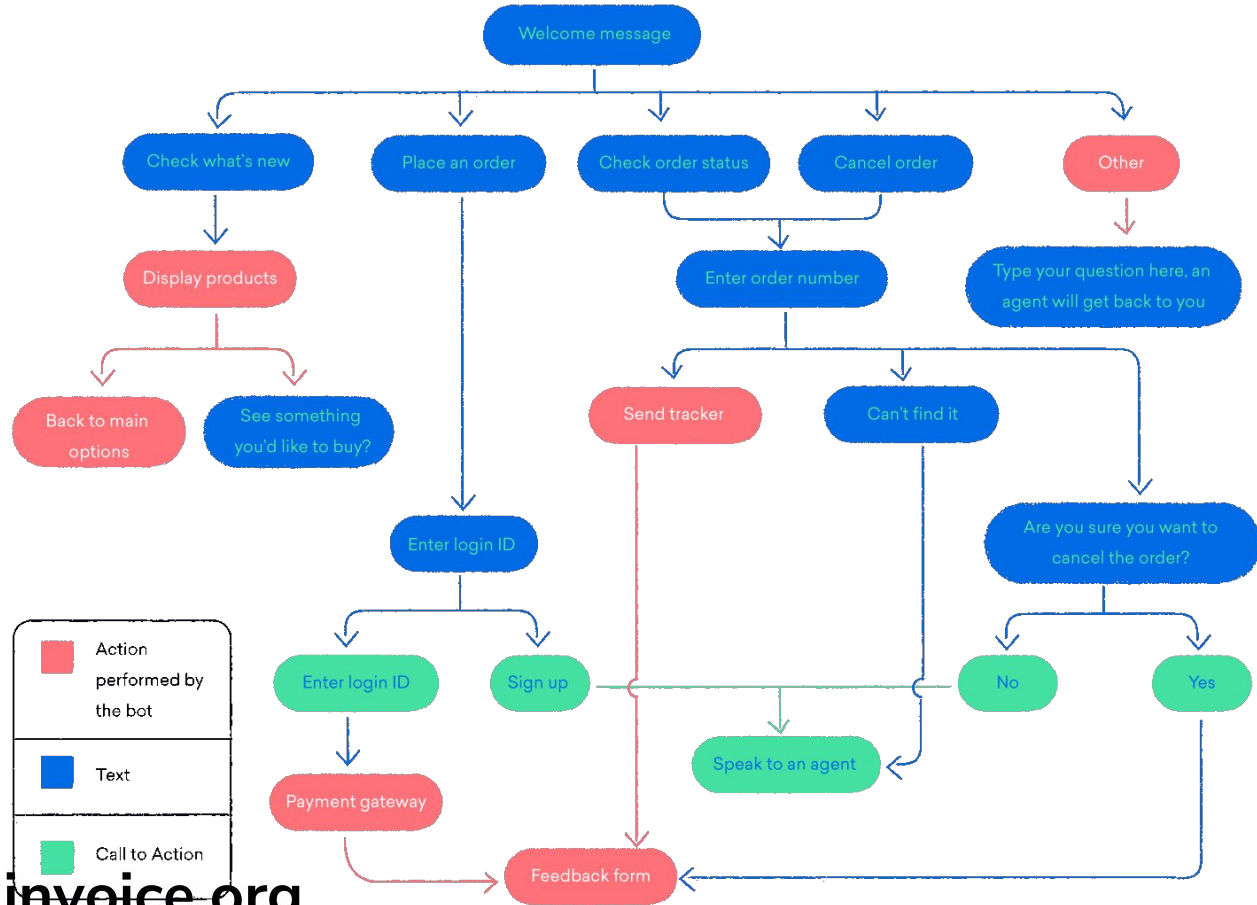
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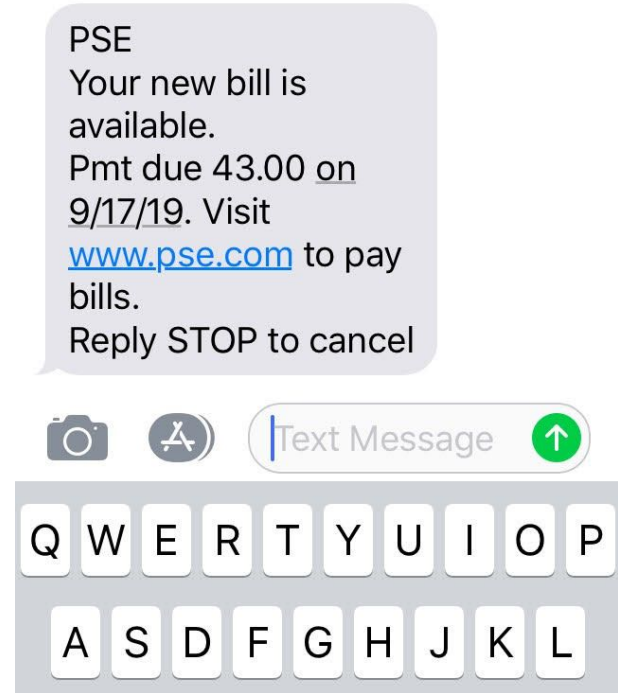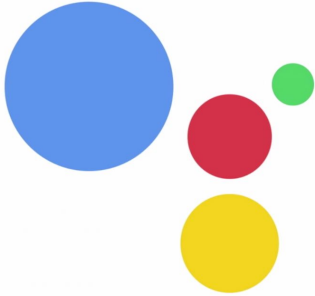
Google Assistant

Conversation Designer UX Writing Content

Book a flight from Los Angeles to Hawaii for less than $300

You got it!

Developer

"lang": "en",
"result": {
"source": "agent",
"action": "flight.book", "parameters": {"geo-city": "Los Angeles",
"geo-state-us" : "Hawaii", "price": {"amount": 300, "currency": "USD"},
"contexts": [{"name": "flightbook", "parameters": {
"geo-state-us.original": "Hawaii",
"price": {

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Multimodal & Integrated

"Multimodal" means leveraging multiple modes/modalities for

inputs & outputs:
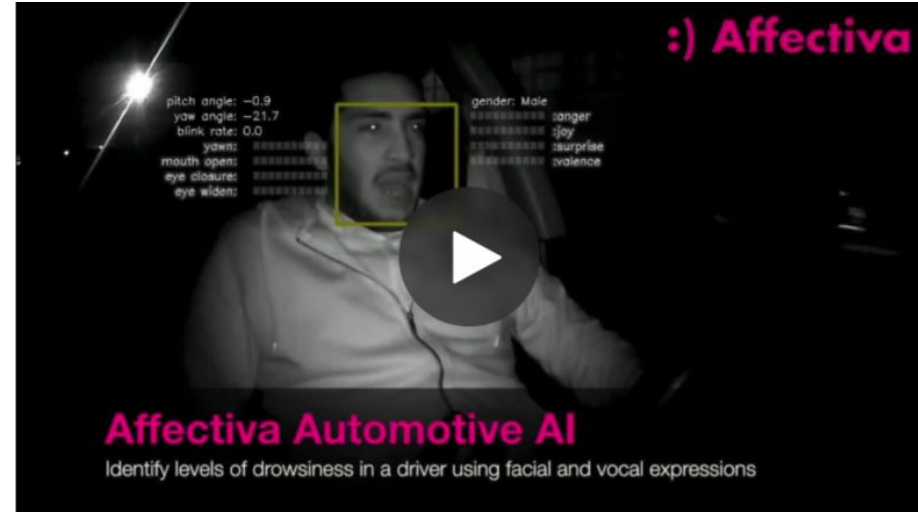text, touch, audio, computer vision, video, AR, VR, gesture, & voice

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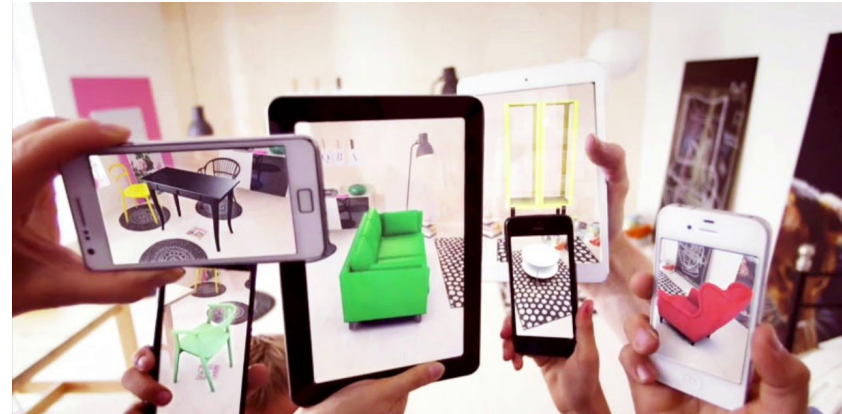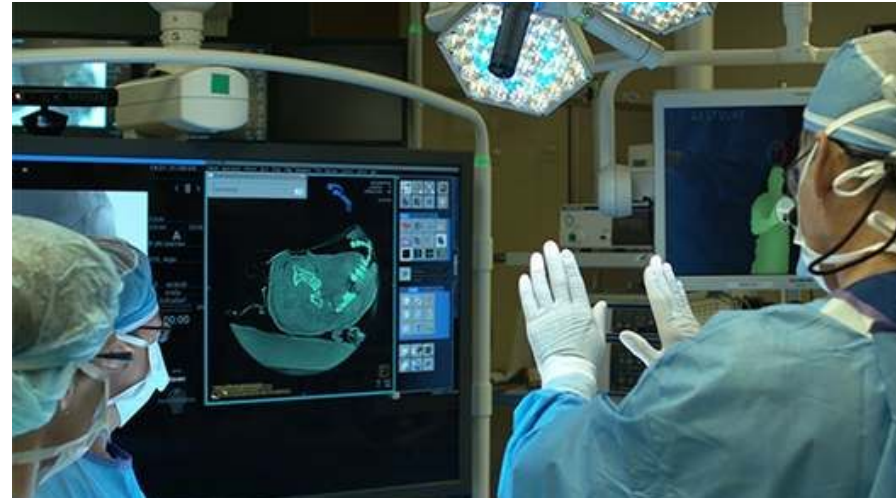
Alexa اليكسا اكتشافي الجديد

@MhaBLG
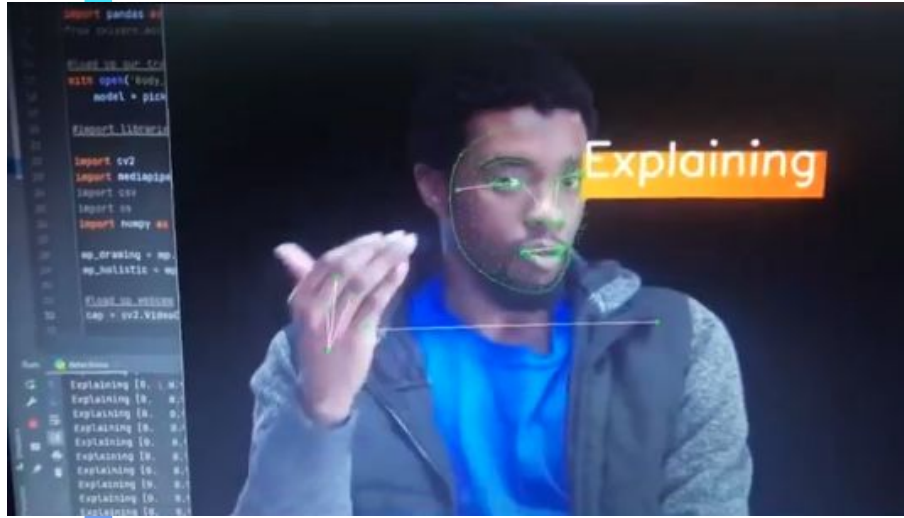
Mfonobong Isine (2021)

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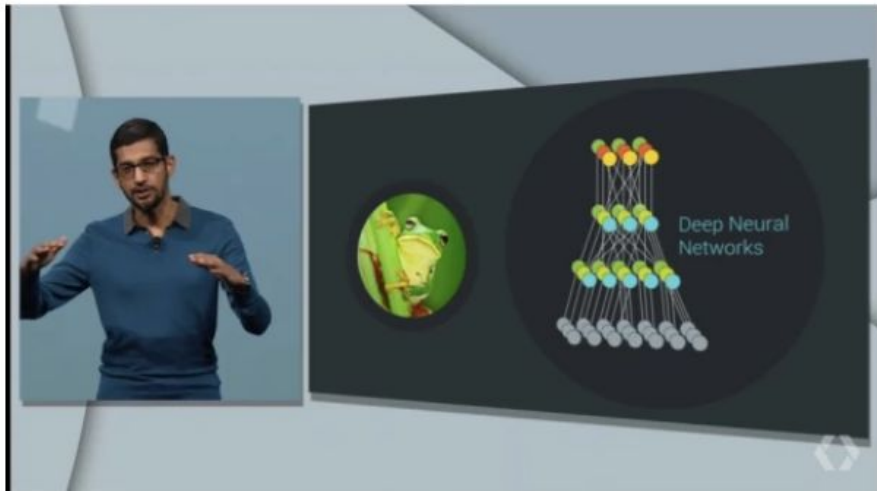28% of all US traffic related deaths being caused by alcohol impaired driving (Affectiva, 2018)

NEWS ⌄   EVENTS ⌄   RESEARCH ⌄

Search

BIG DATA

Google says its speech recognition technology now has only an 8% word error rate

JORDAN NOVET   @JORDANNOVET   MAY 28, 2015 10:40 AM

Deep Neural Networks

Above: Google's Sundar Pichai talks about its advancements in deep learning at the 2015 Google I/O conference in San Francisco on May 28.

Image Credit: Screenshot

Google today announced its advancements in deep learning, a type of artificial

VB Recommendations

Microsoft releases new Windows 10 preview with Sets, Bluetooth, and Calculator improvements

Netmarble invests $190 million in K-pop sensation BTS's music label

AWS Secrets Manager plugs a major cloud security hole

Upcoming Events

GamesBeat Summit 2018 Apr 9 - 10

Transform 2018 Aug 21 - 22

VB Summit 2018 Oct 22 - 23

12

Harvard Business Review

Technology And Analytics
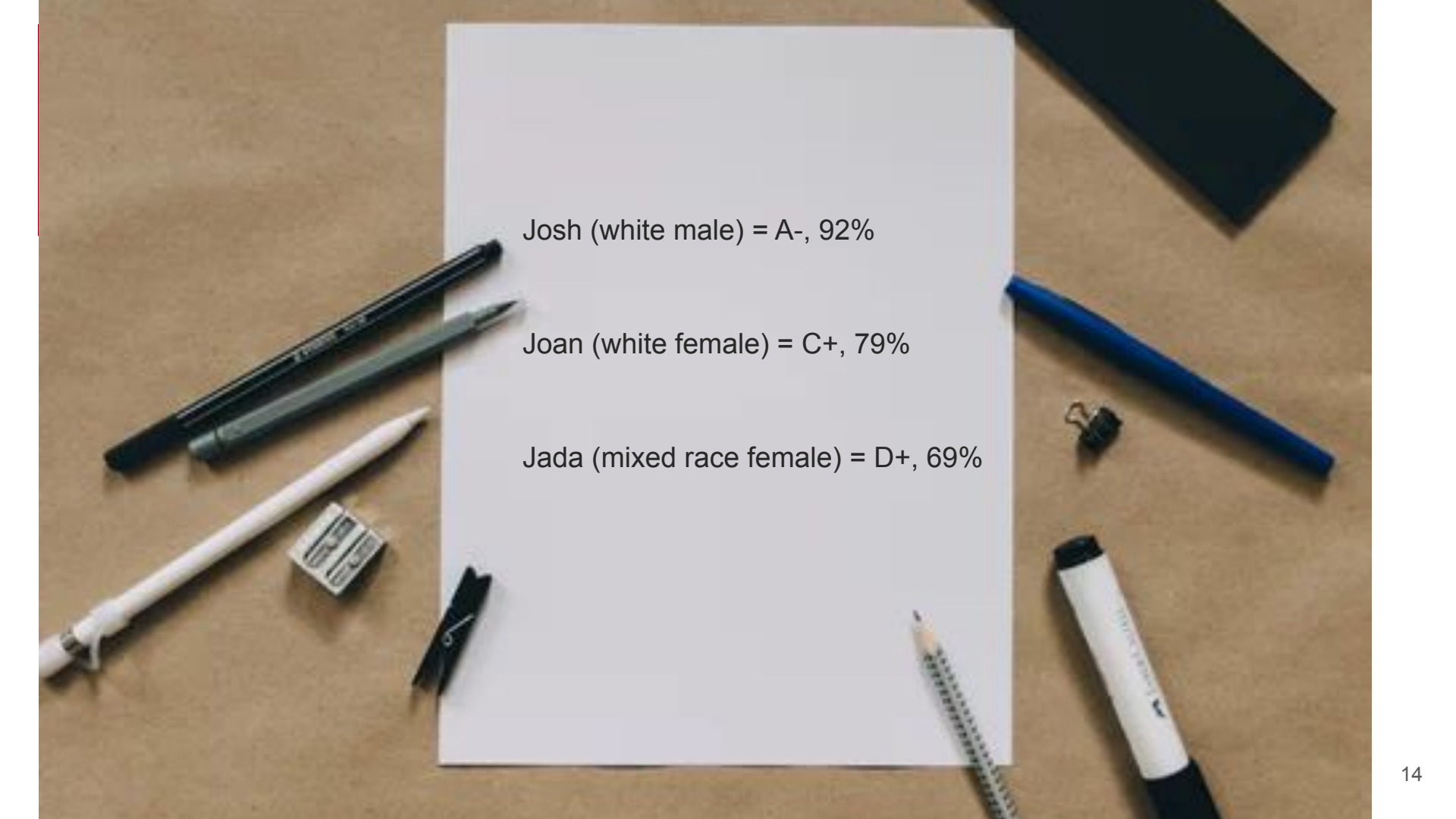
Voice Recognition Still Has Significant Race and Gender Biases

by Joan Palmiter Bajorek

May 10, 2019

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Josh (white male) = A-, 92%

Joan (white female) = C+, 79%

Jada (mixed race female) = D+, 69%

Jobs and Careers

Women in Voice, 501(c)(3)

The Mission of Women in Voice is

to amplify, equip, connect, and celebrate

women and gender minorities in the conversational AI and voice tech field

via community, networking, education, & events.

We're the Women Who Code for Voice Tech

womeninvoice.org

22 Chapters in 16 Countries

International by Design

Seattle
Minneapolis
New York
New Jersey
Michigan
Mexico
Brazil
Latinx (Global)
Russia
Silicon Valley
Boston

United Kingdom
Canada
Spain
France
Germany
Italy
India
Japan
ANZ
(Australia + New Zealand)
Switzerland

We have hosted 150+ Events in 3+ years
Hackathons, Meetups, Seminars, Presentations

womeninvoice.org

Women in Voice

WOMEN IN VOICE 2022 SUMMIT
MAY 23-26 | GLOBAL | VIRTUAL

#womeninvoice #wivsummit

womeninvoice.org/summit

2021: Female Founder Events: womeninvoice.org/pitch-events

Pitch Events

Office Hours

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