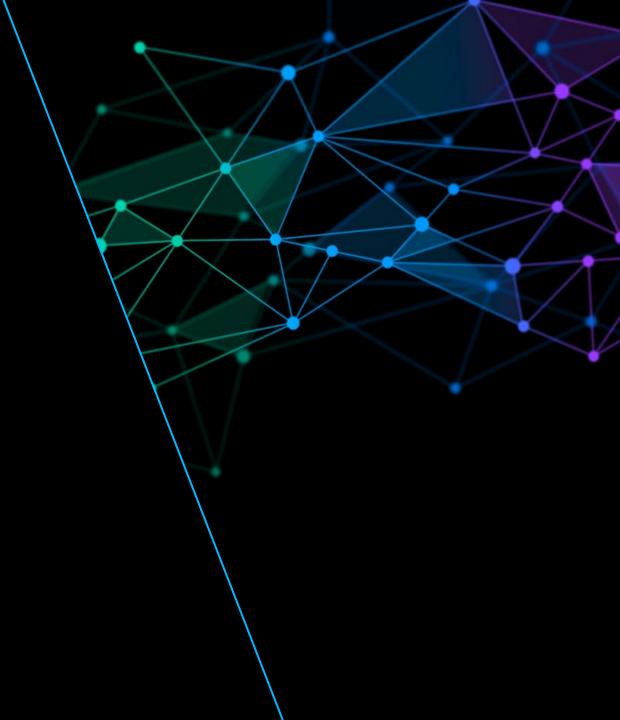
Microsoft AI for Accessibility Program



Al for Accessibility

Pushing the limits of what AI can do in accessibility to ensure global independence and inclusion in society for people with disabilities

Focus Areas:



Education



Employment



Community



Home



Learn more: aka.ms/AlforAccessibility

Azure Cognitive Services: Pre-Built

Uses an API call to embed the ability to see, hear, speak, search, understand, and accelerate decision-making into apps







Speech



Language



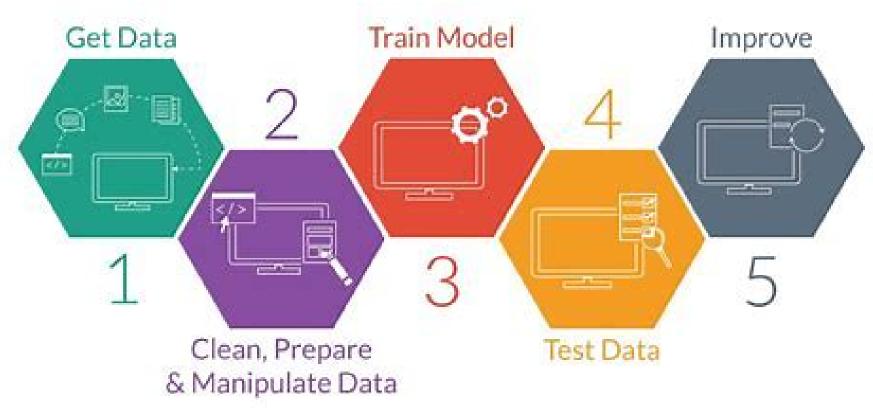
Knowledge



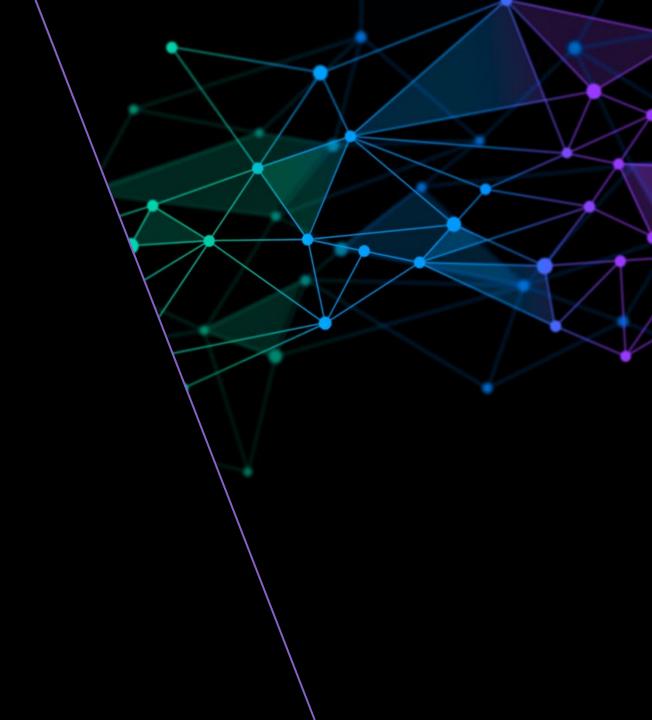
Search

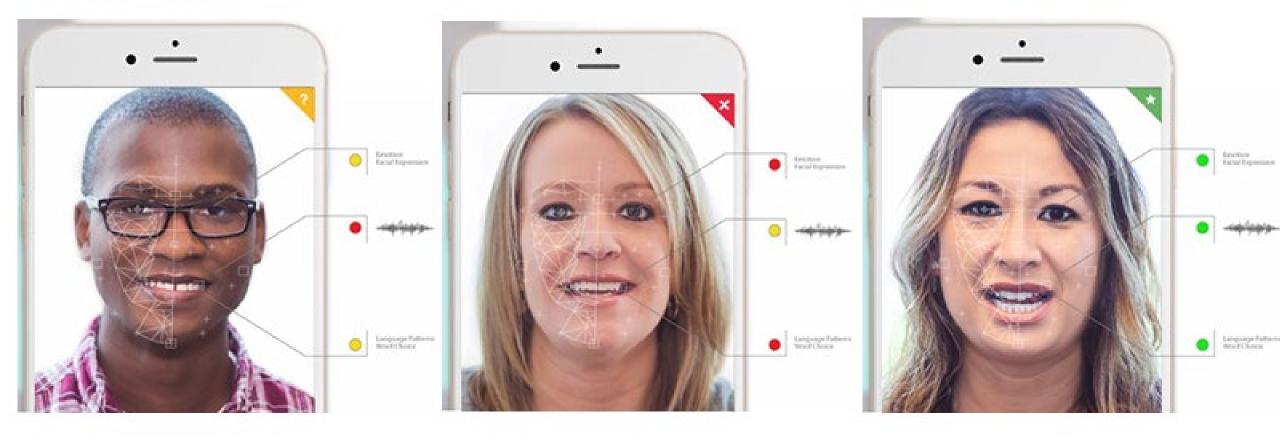
Azure Machine Learning: Custom

Uses data to further refine and customize your project, allowing your solution to continue to learn and improve



Inclusive AI Design





A New Cautionary Tale

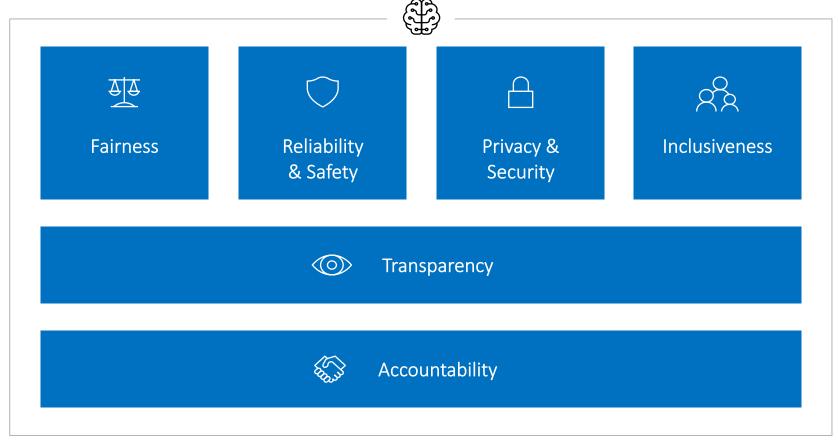
HireView is a video interview that predicts job candidate performance based on:

- facial expressions
- · tone of voice
- · vocabulary

Recognizing Bias

- Datasets
- Associations
- Automated Decisions
- Interactions
- Confirmations

Design Al to Earn Trust & Respect Values



https://aka.ms/disabilityaiethics

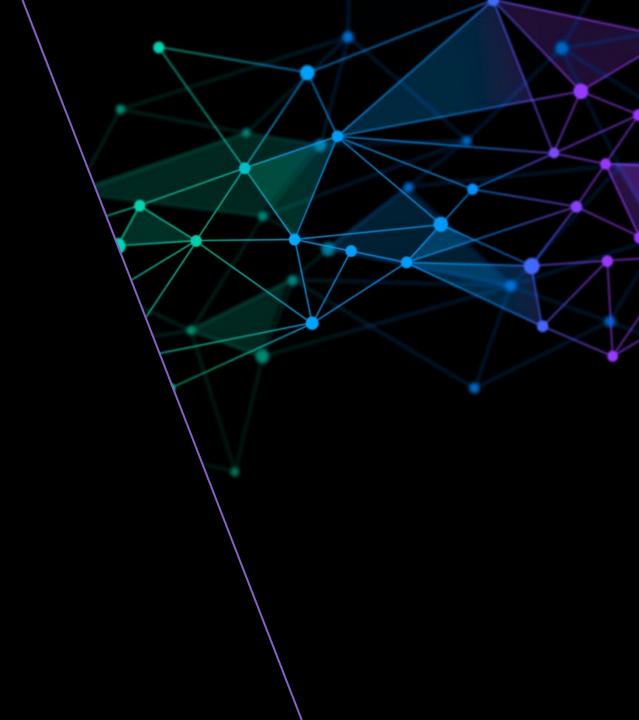
5 principles of inclusive Al design

- 1. Redefine bias as a spectrum
- 2. Enlist users to correct bias "Nothing about us without us"
- 3. Cultivate diversity with privacy and consent

"Representation matters"

- 4. Balance intelligence with discovery
- Build inclusive AI teams

Al for Accessibility Projects



Home

Challenge:

1 in 10 people living with disabilities have access to the assistive technology needed.



City University of
London is collecting data
and developing
experimental algorithms
for improving
personalized AI object
recognition

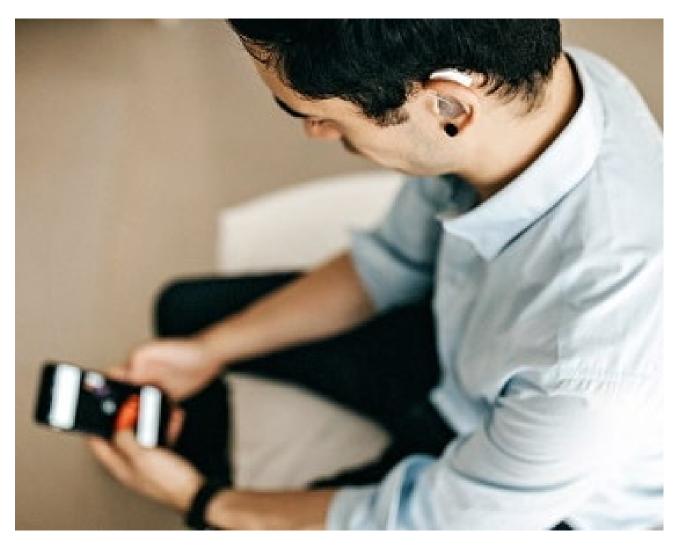


WeWALK is enabling independence and safe, limitless exploration with a smart cane for people who are blind or have low vision

Community

Challenge:

In some countries, there may only be one mental health professional per 100,000 people. When paired with the reality that 1 in 5 people have a mental health condition, we are asking how technology can and should be involved.



Mental Health America (MHA), Northwestern University and University of Toronto are partnering to bring mental health research and AI together

Employment

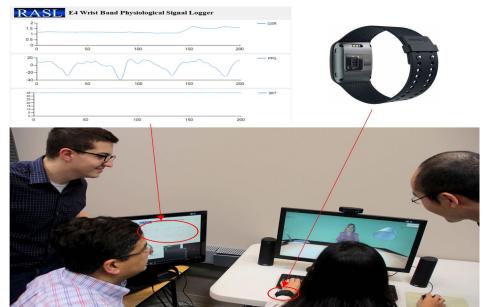
Challenge:

In the UK, the unemployment rate for people with disabilities (7%) is more than double that of individuals without a disability (4%).*

*pre COVID-19



Leonard Cheshire Disability is collecting data about the career journeys of people with disabilities



The Frist Center for
Autism and Innovation
at Vanderbilt University
is developing VR job
interview training for
people with Autism

Education

Challenge:

In the UK, the graduation rate with a 4-year degree for students with disabilities (22%) is half than that of individuals without a disability (38%).



The Open University ADMINS team created "Taylor" a chatbot assistant to reduce the barriers to independent living for people with cognitive disabilities

Request for Proposals (RFP) in Education

Opportunity:

Leverage AI to build and advance equity for students with disabilities within but not limited to the following areas:

- Adaptive and assistive technology
- Access to Curricula and Content
- Mental Health and Intersectionality

Al4A Education RFP Deadline: March 12, 2021

Apply online at aka.ms/grant

PhD Opportunity

Opportunity:

Microsoft-funded PhD opportunity with Swansea University in the UK that will be looking at disability-first dataset collection in low-resource settings.

Application Deadline: March 26, 2021

Apply online at: https://computationalfoundry.eu/icase-phd/



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How will you build a more accessible and inclusive world?

