

AI & Data Skills in Demand: Insights from the National Skills Landscape

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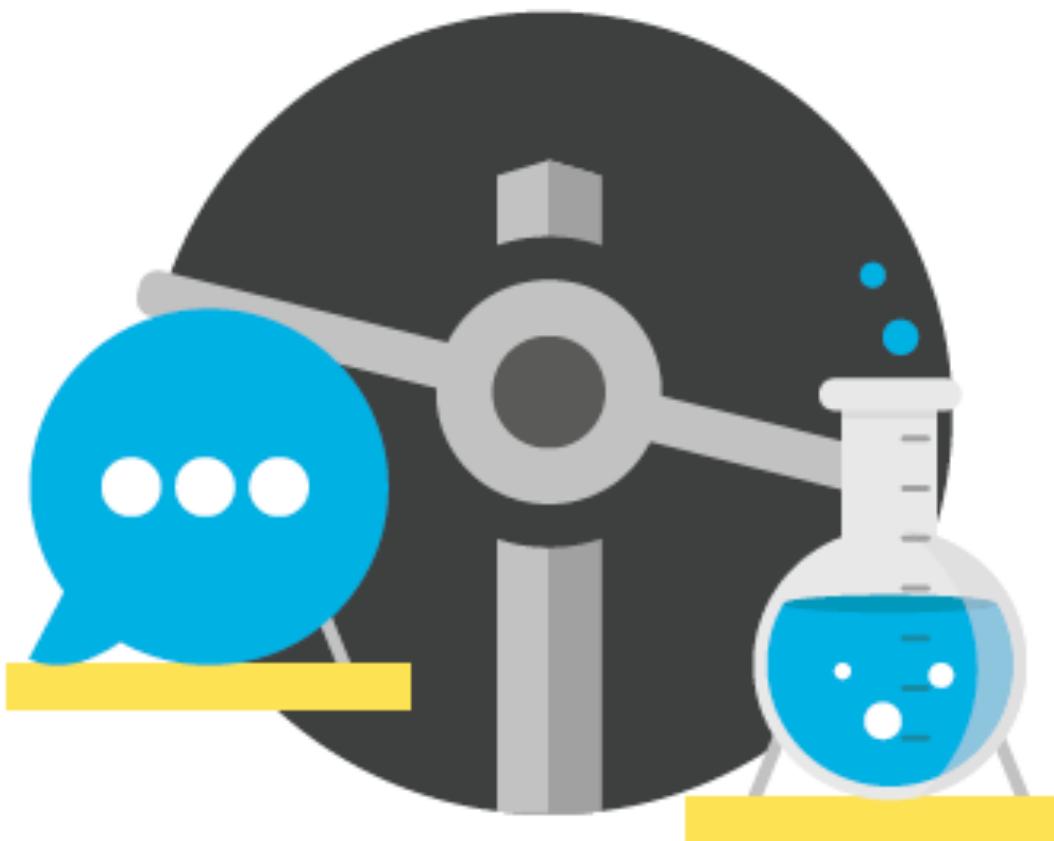
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Resources: <https://github.com/MattForshaw/CS-IndustryExpertInsights-July2021>

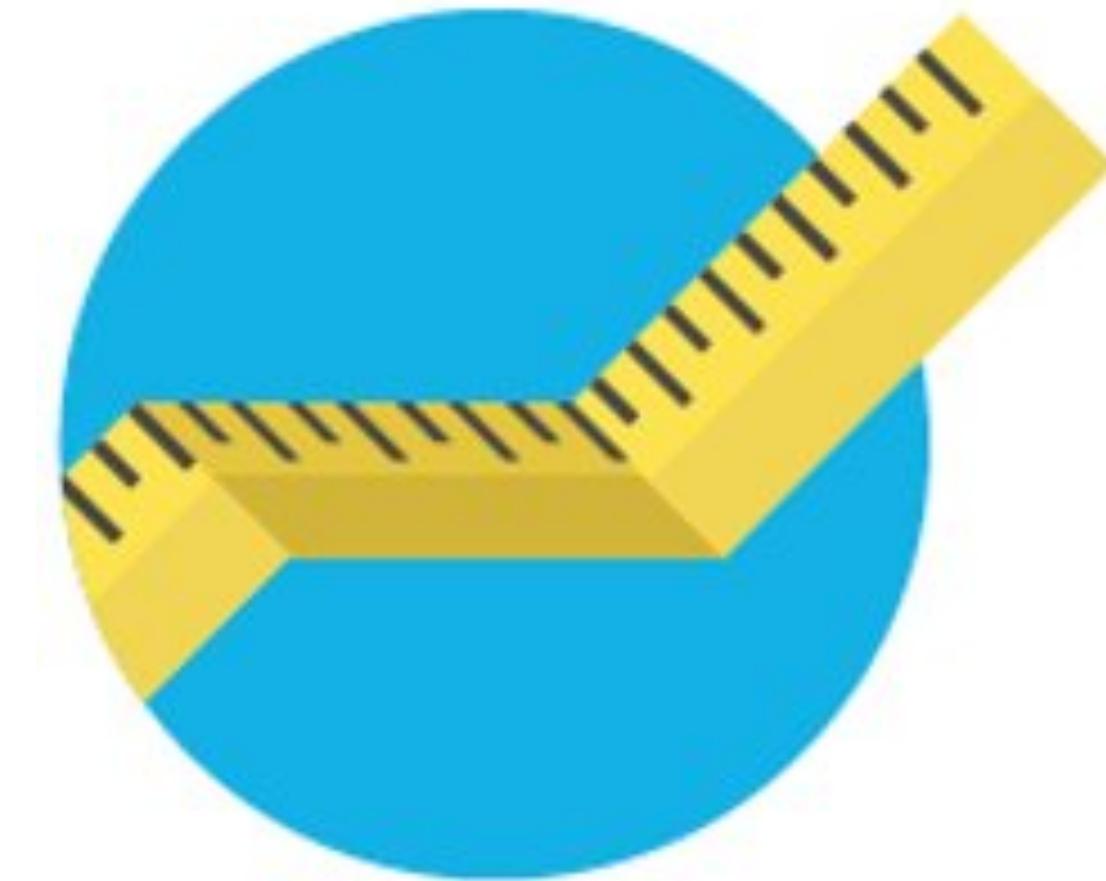
Cambridge Spark Industry Expert Insights #8, Thursday 22nd July 2021

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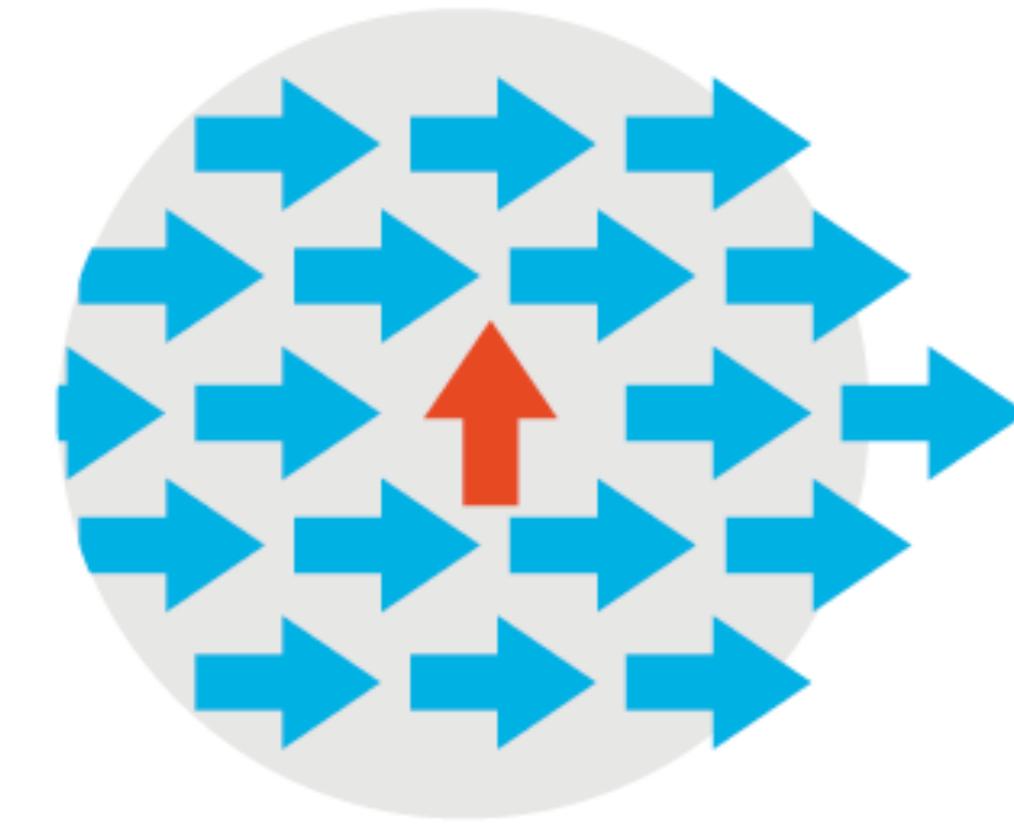
Challenges and Opportunities in the data science and AI skills landscape



Terminology and Nomenclature
Lack of agreed definitions and role descriptors



Data Deficit
Restricting strategic planning and decision-making



Lack of alignment
Mismatch between academic/industry need and skills offerings



Raising awareness and widening access
Visibility of, and access to, the variety of routes to training among students, employees and industry

Total for UK*

2013 | 2017/2018
736,611 | 996,262



Growth since 2013

Scotland

2013 | 2017/2018
36,388 | 41,117



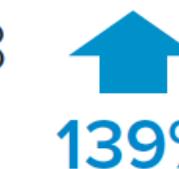
North West

2013 | 2017/2018
45,286 | 61,871



Northern Ireland

2013 | 2017/2018
4,987 | 11,902



North East

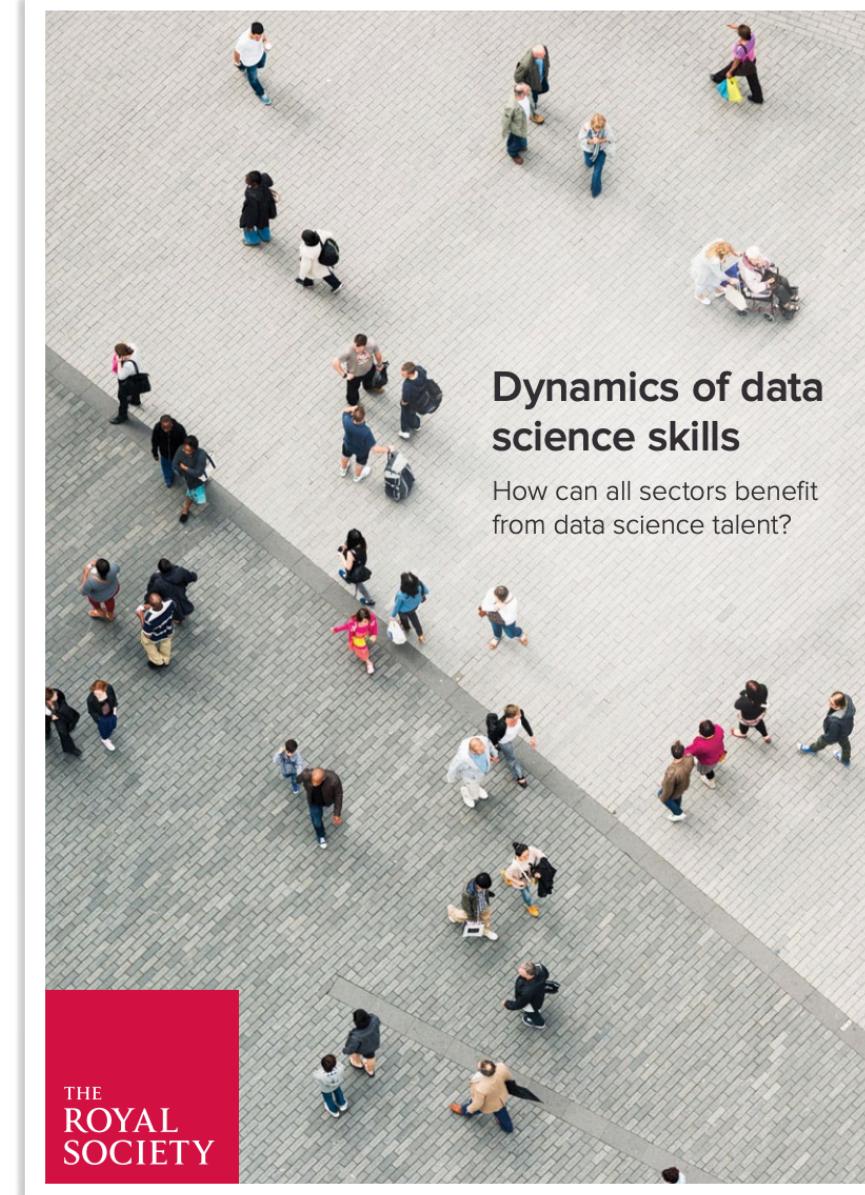
2013 | 2017/2018
7,444 | 11,095



2013 | 2017/2018
30,957 | 37,743



East of England



A screenshot of a web browser window. At the top, there are three colored circular icons (red, yellow, green) followed by the text "BBC BBC - BBC and partners annou" and a close button ("X"). Below the address bar, there are navigation icons for back, forward, and search, along with a padlock icon and the URL "bbc.co.uk/mediacentre/latestne". The main content area displays a news article with a large image of a person in a blue jacket. A prominent black banner across the middle of the page contains the text "Let us know you agree to cookies" on the left and "We use cookies Please let us kn" on the right, with the rest of the text cut off. At the bottom, the BBC logo is on the left, a user profile for "Matthew" is in the center, and a notification bell icon is on the right.





Newcastle
University



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TOL



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BBC and partners announce new apprenticeship to drive data skills in the UK

Date: 07.10.2019 Last updated: 07.10.2019 at 16.30
Category: Corporate: Online and interactive

Employers, recent graduates, people interested in technology and employees will be able to benefit from a new apprenticeship that has been created with the BBC, UK universities and a number of agencies.

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In 2017, the BBC launched a major Data Science Research Partnership with eight UK universities. Working with a number of organisations such as BT, EasyJet and TUI, the BBC designed and developed this new apprenticeship.

Data is important to the BBC for two reasons:

- In order for the BBC to remain relevant in an era of streaming and subscription services, the BBC uses data to make its products and

66

The introduction of this new standard will help to build the next generation of talent in AI, who are so integral to the future of our society and the UK's industrial ambitions."

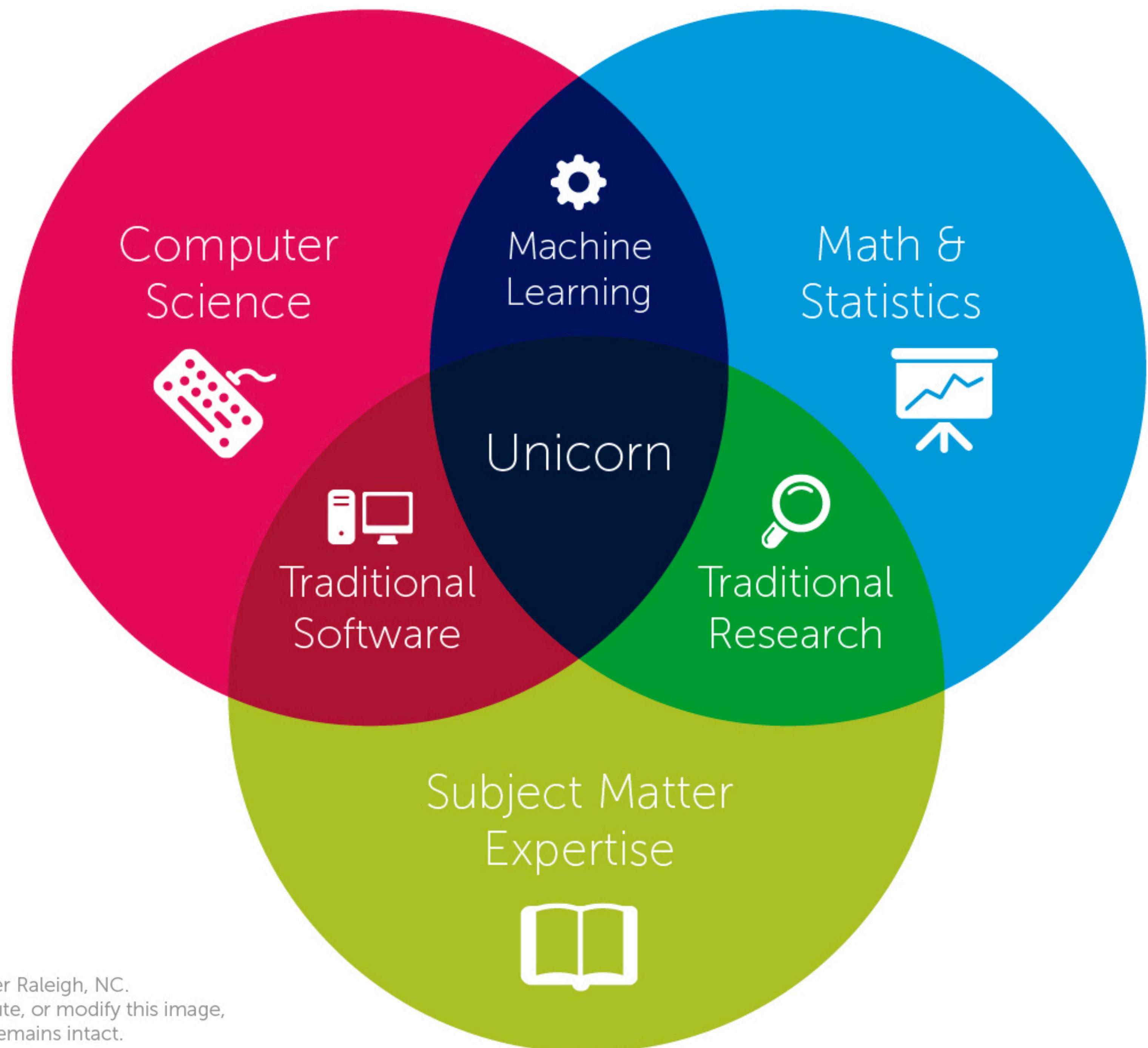
Matthew Forshaw

Search the site

Can't find what you need? Search here

Enter a subject, topic or keyword





**85% of big data and data
science projects fail to move
from proof-of-concept (POC)
to production.**

Gartner



Newcastle
University



National
Innovation
Centre
Data

Powered by
Newcastle University

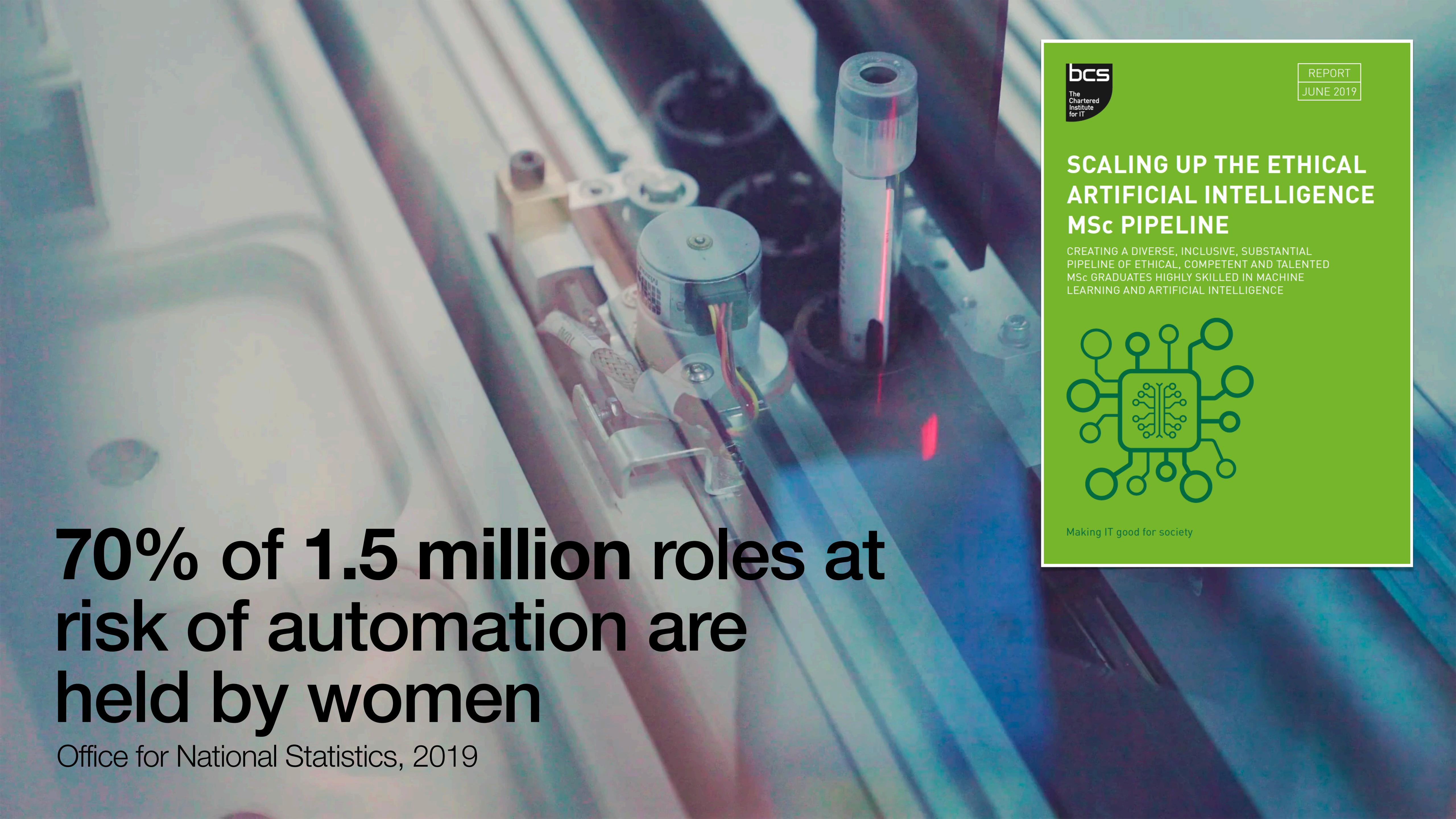


CODE OF ETHICAL BEHAVIOR



Homer Simpson is shown from the waist up, wearing a light blue jumpsuit with a yellow belt. He has a shocked expression, with his mouth wide open and eyes wide. He is looking towards the right side of the frame. In his right hand, he holds a small, rectangular device with a screen and a few buttons. To his left, there is a large, complex machine with green and orange components, possibly a reactor or a computer core. The background is a dark, metallic control room with various panels, pipes, and a window showing the outside. On the wall behind him is a light blue sign with the text "DAYS WITHOUT DISCRIMINATORY AI" in black capital letters. Above the text is a small white box containing a black infinity symbol.

DAYS WITHOUT
DISCRIMINATORY AI



70% of 1.5 million roles at risk of automation are held by women

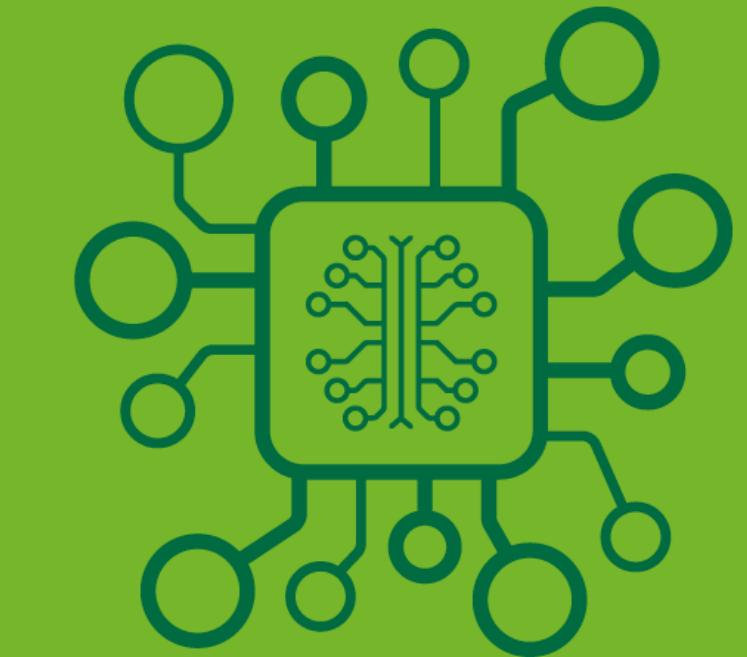
Office for National Statistics, 2019



REPORT
JUNE 2019

SCALING UP THE ETHICAL ARTIFICIAL INTELLIGENCE MSc PIPELINE

CREATING A DIVERSE, INCLUSIVE, SUBSTANTIAL PIPELINE OF ETHICAL, COMPETENT AND TALENTED MSc GRADUATES HIGHLY SKILLED IN MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE



Making IT good for society

Freethinkers wanted

Your future in AI and data science starts here



NEWS

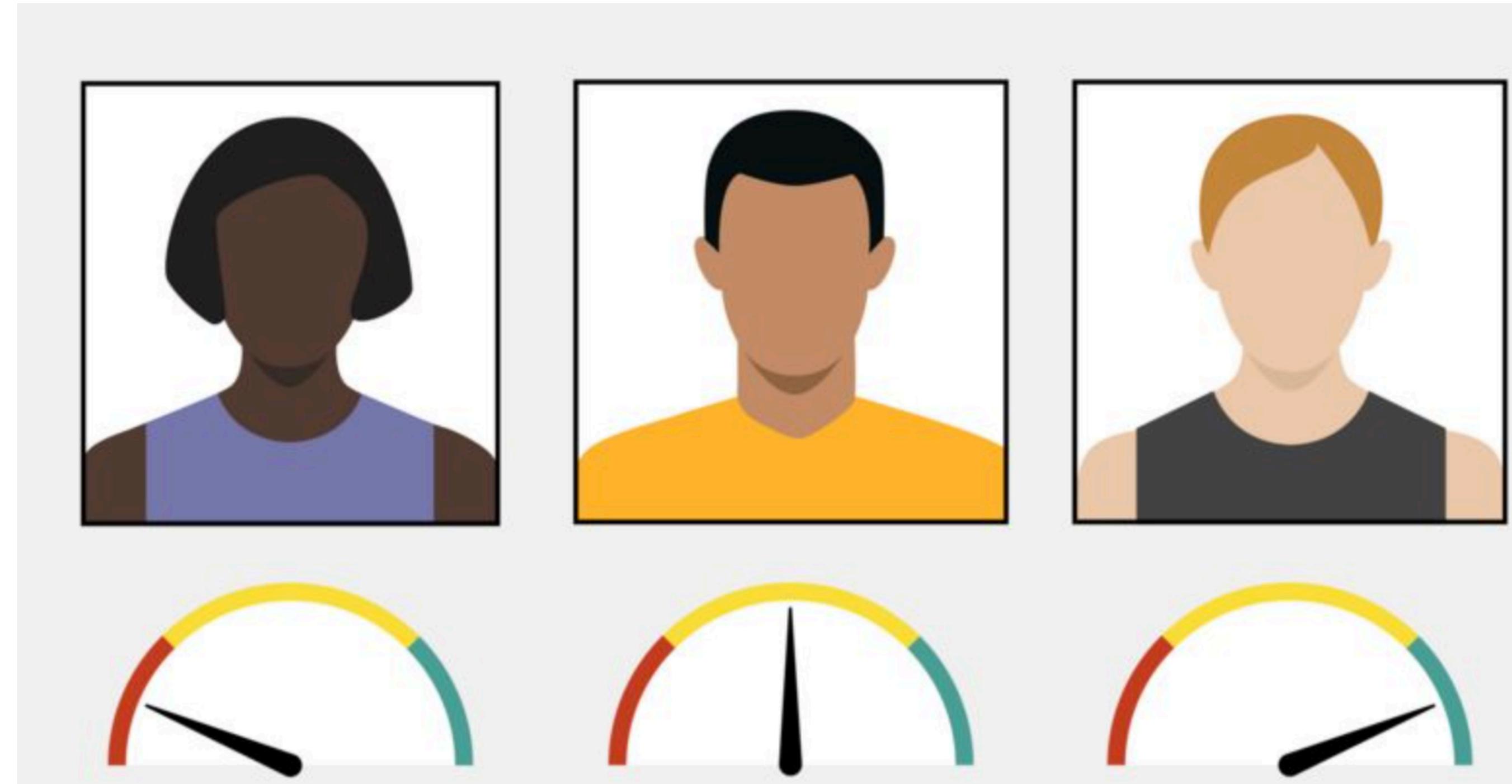
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Technology

UK passport photo checker shows bias against dark-skinned women

By Maryam Ahmed
BBC News

⌚ 12 hours ago



result

Your photo doesn't meet all the rules and is unlikely to be suitable for a new passport.

▼ Find out the reason for this result

It looks like your mouth is open

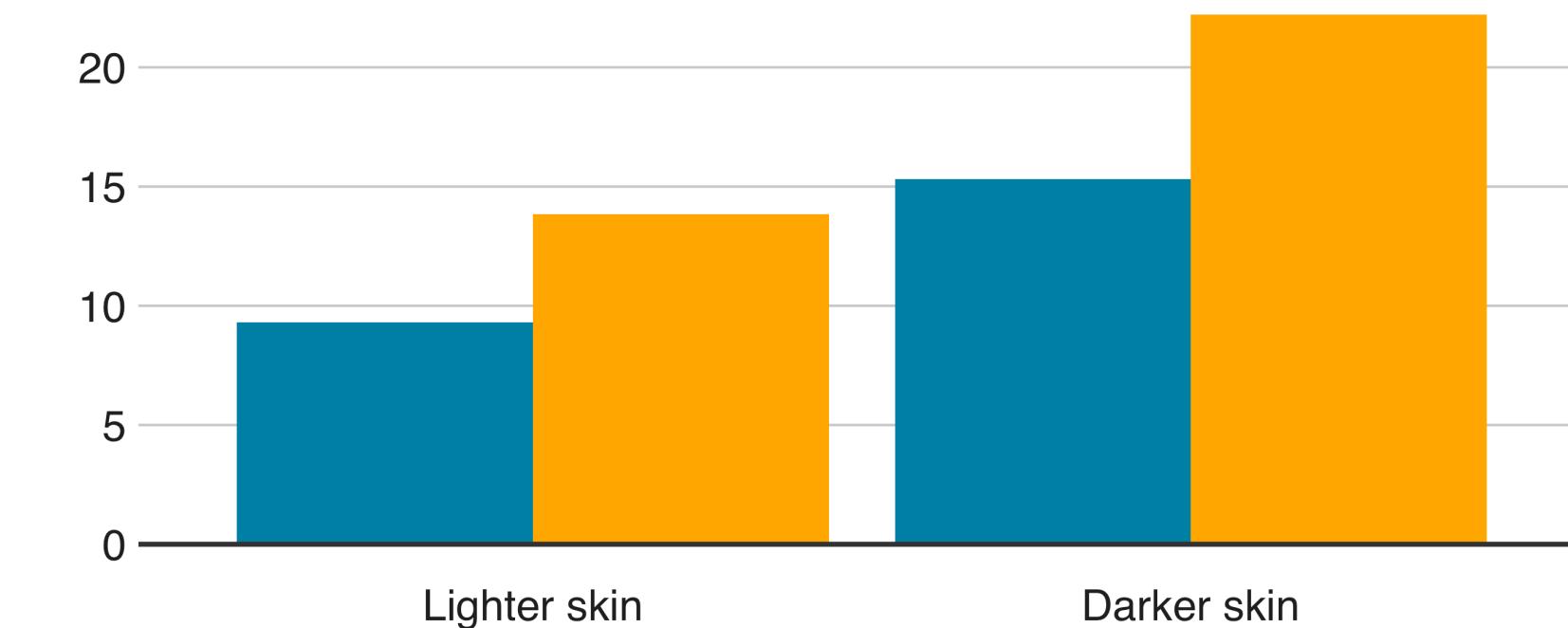
Your photo

A screenshot of a passport photo checker interface. It shows a dark-skinned woman's face with a rejection message: "Your photo doesn't meet all the rules and is unlikely to be suitable for a new passport." Below this, it says "Find out the reason for this result" and "It looks like your mouth is open". To the right is a small thumbnail of the same woman's photo.

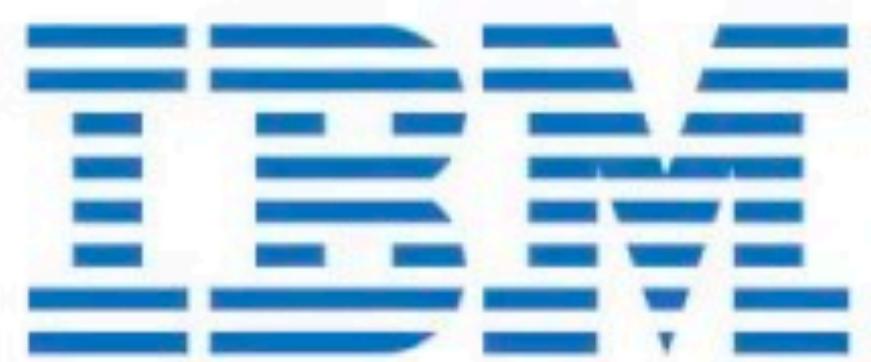
Automated checks give low scores to women and darker-skinned people

Percentage of photos graded poor quality

■ Male ■ Female

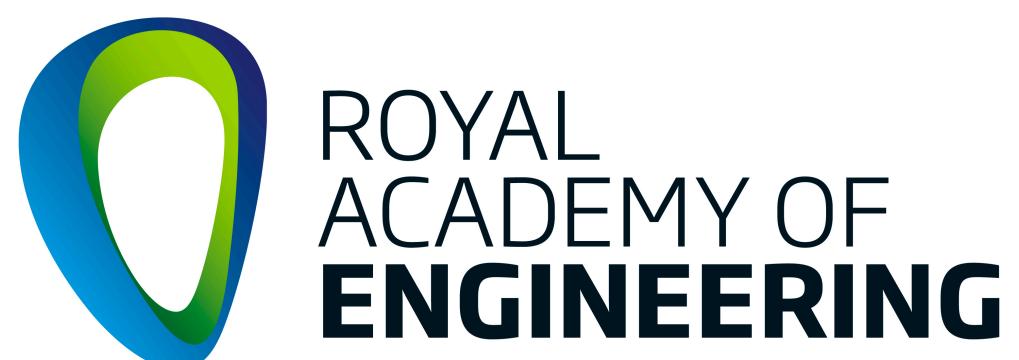


Source: BBC research



<https://www.youtube.com/watch?v=QxuyfWoV98>

Professionalisation of Data Science (Accreditation and Certification)



Data Science / AI Education Interest Group

1. Support the embedding of data skills into many disciplines through “train the trainer” and community of practice.
2. Cohort building among industry and educators will emphasise professional connection and skill exchange, lowering barriers to collaboration.
3. Provide longitudinal mentoring to support diverse individuals in the uptake of new practices while practicing the learned skills directly in their work.

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Resources: <https://github.com/MattForshaw/IDSAI-DSWeek-2021>

IDSAI Data Science Week 2021, Monday 28th June 2021

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