# DataKinduk

# Data Science and Society

#### 1. Introduction

Thank you for taking part in DataKind UK's first community survey on best practice in data science and Al!

We are interested to hear thoughts from the DataKind UK community on data science/AI and responsible data. This will guide the support we offer both to you, as a volunteer, and the non profit organisations we work with.

The survey should take a maximum of 20 minutes (if you are providing detailed answers!).

All results are, and will remain, anonymous.

If you have any questions about participating in this survey, or about DataKind UK's work on responsible data, please contact Tracey (tracey@datakind.org.uk)

#### 2. Responsible Data & Society

	l: *
Positive	
Negative	
Not sure	
Comments: Please tell us why	

Which aspects of the current and upcoming use of data in society concern you, if any?Please rate or	n a
scale from 1:Not worried at all to 5: Very worried *	

	1	2	3	4	5
Algorithms will make					
important decisions without					
clear recourse or explainability					
(e.g. 'why is my credit score					
so low? Who knows!')					
The possibilities and benefits					
of AI will be limited due to					
excess caution about negative					
consequences and bias.					
Unemployment due to the					
automation of jobs					
Increase in surveillance and					
loss of privacy due to facial					
recognition and affect					
recognition Radicalization of algorithm-					
driven content (e.g. in an ad-					
driven online economy, the					
most extreme opinions get the					
clicks)					
Preservation and					
reinforcement of existing					
biases through AI (e.g. Google					
learning from existing images					
that a doctor is male and a					
nurse female)					
Superintelligence/singularity					
issues (grey goo, mass control					
of humans etc)					
Other falls are add that are are					
Other [please add what concern	ns you in the fi	eld of data scienc	e and Alj		
Who do you think is responsil					science and
Al? Please rate from 1- Very u	ınlikely to be ı	responsible to 5	ery likely to be	e responsible: *	
	1	2	3	4	5
Government		$\overline{\Box}$			Õ
The developers/data					
scientists					
JOIGH HISTS					

21/03/2019	https://app.smartsurvey	.co.uk/survey/print/id	/526959?t=1&dst=true&	&dsl=true&dpt=true&dpb=	false&dpn=true&dqn=tru	ue&dqb=false&st=363641
		1	2	3	4	5
Project mana	gers/people					
overseeing th	e delivery of					
a specific mo	del or					
algorithm						
Regulators e.	g.					
Information						
Commissione						
C suite/level						
Industry leade	ers					
Educators						
Non-profits						
*Who should	bear most respo	nsibility?				
				ce non profit which		
	w incomes to st ould influence yo			n deciding who to	give loans to, v	wnich of the
TOHOWING WO	ula illilaelice yc	our decision:				
ionowing wo	dia ililiaence ye					
	-	Yes		No		Unsure
Purpose of th	e loan			No		Unsure
Purpose of th	e loan			No		Unsure
Purpose of th Borrower's ec employment	e loan ducation and			No		Unsure
Purpose of th Borrower's ed employment Borrower's ar	e loan ducation and			No		Unsure
Purpose of th Borrower's ec employment Borrower's ar residence	e loan ducation and rea of			No		Unsure
Purpose of the Borrower's exployment Borrower's arresidence Potential soci	e loan ducation and rea of ial impact of			No		Unsure
Purpose of the Borrower's economic employment Borrower's arresidence Potential sociathe loan (num	ne loan ducation and rea of fal impact of			No		Unsure
Purpose of the Borrower's exployment Borrower's arresidence Potential sociathe loan (numemployees the	ne loan ducation and rea of fal impact of aber of ey will hire)			No		Unsure
Purpose of the Borrower's economic employment Borrower's arresidence Potential sociathe loan (num	ne loan ducation and rea of dal impact of aber of ey will hire) an			No		Unsure
Purpose of the Borrower's endemployment Borrower's arresidence Potential sociathe loan (numemployees the Belonging to underreprese	ne loan ducation and rea of dal impact of aber of ey will hire) an			No		Unsure
Purpose of the Borrower's endemployment Borrower's arresidence Potential sociathe loan (numemployees the Belonging to underreprese	ne loan ducation and rea of fal impact of aber of ey will hire) an nted group pe of business			No		Unsure
Purpose of the Borrower's edemployment Borrower's ar residence Potential sociathe loan (number employees the Belonging to underreprese Risk of the type	te loan ducation and rea of dal impact of deproyen will hire) an nted group pe of business redit history			No		Unsure
Purpose of the Borrower's endemonerate Potential social the loan (numer employees the Belonging to underreprese Risk of the type Borrower's create the potential social the loan (numer properse).	te loan ducation and rea of dal impact of deproyen will hire) an nted group pe of business redit history			No		Unsure
Purpose of the Borrower's end employment Borrower's ar residence Potential sociathe loan (numemployees the Belonging to underreprese Risk of the type Borrower's created by the Borrower's sociation and the sociation of the socia	ne loan ducation and rea of dal impact of aber of ey will hire) an nted group pe of business redit history ocial media			No		Unsure
Purpose of the Borrower's edemployment Borrower's ar residence Potential sociathe loan (numemployees the Belonging to underrepresed Risk of the type Borrower's construction activity	ne loan ducation and rea of dal impact of aber of ey will hire) an nted group pe of business redit history ocial media			No		Unsure
Purpose of the Borrower's edemployment Borrower's ar residence Potential sociathe loan (number employees the Belonging to underreprese Risk of the type Borrower's creativity Borrower's factivity	ne loan ducation and rea of dal impact of aber of ey will hire) an nted group pe of business redit history ocial media	Yes		No		Unsure
Purpose of the Borrower's edemployment Borrower's ar residence Potential sociathe loan (number employees the Belonging to underreprese Risk of the type Borrower's creativity Borrower's factivity	ne loan ducation and rea of fal impact of ther of they will hire) an inted group pe of business redit history ocial media mily/social	Yes		No		Unsure
Purpose of the Borrower's edemployment Borrower's ar residence Potential sociathe loan (number employees the Belonging to underreprese Risk of the type Borrower's creativity Borrower's factivity	ne loan ducation and rea of fal impact of ther of they will hire) an inted group pe of business redit history ocial media mily/social	Yes		No		Unsure
Purpose of the Borrower's edemployment Borrower's ar residence Potential sociathe loan (number employees the Belonging to underreprese Risk of the type Borrower's creativity Borrower's factivity	ne loan ducation and rea of fal impact of ther of they will hire) an inted group pe of business redit history ocial media mily/social	Yes		No		Unsure

Considering real-world implementation of Al and data-heavy tools as a whole, which of the following do you most agree with: *
Use of Al is moving ahead too slowly - there's too much caution and we're missing out on benefits
Use of AI is moving at about the right pace, with a balance between protecting against risk and embracing opportunities
Use of AI is moving ahead too quickly without enough protection against unintended consequences
Please explain your response:
What words do you associate with: ETHICS IN DATA SCIENCE & AIPlease use commas to separate the words
Imagine that you were asked to write code for a purpose or product that you believe could be used in a harmful way. Do you write the code anyway? *
□ No
Depends on what it is
Yes
Please explain your response.

#### 3. Avoiding negative or unintended consequences

Your experiences at work

Do you find the media attention on data ethics helpful to you achieving your goals at work? *
Very Unhelpful
Unhelpful
Neutral
Helpful
Very Helpful
Please explain your reasoning
Have you signed up to a professional code of ethics/code of conduct that covers data ethics? (e.g. the ACM Code of Conduct, D4D Global Data Ethics Pledge) *
Yes
□ No
Can you please tell us which professional code of ethics/code of conduct you have signed up to?
Can you tell us why you haven't signed up to a professional code of ethics/code of conduct?

### 6. Avoiding negative or unintended consequences

Nacada afairid il 1	Yes	s No	Ω	nder opment	Don't know	N/A
code of conduct or set of rinciples for data cience/AI?						
agovernance/accountability amework for data cience/Al			) (			
lave you had concerns ab	out the fol	lowing at work	in the past ye	ar?DATA *		
	Never	Infrequently	Sometimes	Often	Very Often	N/A
Data provenance, e.g lata is from questionable sources						
Data quality, e.g. ncomplete data Data applicability, e.g.						
data with caveats that being used well						
Data retention						
Data sharing						
Other— please specify						
Other— please specify  Have you had concerns ab	oout the fol	lowing at work	in the past ye Sometimes	ar?ANALY Often	'SIS/MODELLING Very Often	
Have you had concerns ab		-				* N/A
		-				

#### Have you had concerns about the following at work in the past year?TEAM \*

	Never	Infrequently	Sometimes	Often	Very Often	N/A
Inadequate						
technical/analytical skills						
(e.g. a team or workers						
are using a technique						
without understanding its						
effects)						
Inadequate subject area						
expertise						
Poor diversity within						
team/organisation						
Other— please specify						
Have you had concerns abo	out the follo		in the past year	r <b>?DATA SUI</b> Often	BJECTS & SOCI	<b>ETY</b> *
Using data without consent of		iiiiequeiii	ly cometimes	Offeri	very Often	IN/A
an imbalance of power	_					
dynamics e.g. personal data						
in exchange for free services						
Using data in a way that the						
subject of the data would not						
expect						
How a model is being applied	d _					
in practice						
Interpretability/explainability						
and communications with						
users/clients						
Effect of your work on existin	g _					
societal issues, e.g.						
exacerbating exclusion						
Lack of recourse/appeals, e.g	<b>J</b> .					
those affected by the model						
are unable to understand						
what happened and why						
Other— please specify						

21/03/2019	https://app.smartsurvey.co.uk/survey/print/id/526959?t=1&dst=true&dsl=true&dpt=true&dpb=false&dpn=true&dqn=true&dqb=false&st=36364116.
	have concerns at work about the unintended (or intended) negative consequences of data or AI, what would you do? Select all that apply: *
Disc	uss with Manager/Mentor
Rais	e within team or project meetings
Rais	e on designated ethics channel e.g. independent phone service, or an ethics board contact form
Disc	uss with colleague(s) privately, e.g. face-to-face or on messaging channel
Disc	uss with union or employee organisation
Spea	ak with an external contact, e.g. journalist or online forum
_ Don	t know
Noth	ning- it's not my responsibility
Othe	er— please specify
Is there a	general whistleblowing policy in your organisation where you are supported to raise areas of  *
Yes	
☐ No	
Don	t know
Would th	ere be any impact on your job security if you raise an ethical issue to your manager? *
Yes,	negative impact
Yes-	positive impact
☐ No	
Don	t know
Comment	s: Please tell us why
T. Control of the Con	

## 7. Avoiding negative or unintended consequences

	k about the last time you discussed questions of data ethics/impacts of your work (or your anisation's work) with colleagues. How long ago was it?
	In the past week
	In the past month
	One to six months ago
	Six to twelve months ago
	Over a year ago
	Never
	Not applicable
	k about the last time you discussed issues of data ethics/impacts in the wider world (ie not from your k) with colleagues. How long ago was it?
	In the past week
	In the past month
	One to six months ago
	Six to twelve months ago
	Over a year ago
	Never
	Not applicable
	What should DataKind UK do to support best practice in ta science and AI?
Tell ι	us your ideas!
	AT DO YOU THINK DATAKIND UK SHOULD DO TO SUPPORT DATA SCIENTISTS/ANALYSTS: To mpion the positive impact for data science and AI
To re	educe the potential for negative impacts of data science and Al

# 9. What should DataKind UK do to support best practice in data science and AI?

Tell us your ideas!

WHAT DO YOU THINK DATAKIND UK SHOULD DO TO SUPPORT NON PROFIT ORGANISATIONS/LOCAL GOVERNMENT: To champion the positive impact for data science and AI				
To reduce the potential for negative impacts of data science and Al				
10. About You				
Which of the following describe you? Please select all that apply. *				
Data or business analyst				
Data scientist or machine learning specialist				
Data Engineer				
Developer				
Senior management/C-suite executive (CEO, CTO, etc.)				
Designer				
Product manager/Project manager				
Educator or academic researcher				
Marketing or sales professional				
Student				
None of the above. Please state				
What type of organisation do you work for? *				
Private firm or business, a limited company,				
Public company, plc				
Yourself (freelancer)				
Nationalised industry or state corporation				

	Central Government, Civil Service
	Local government or council (incl. police, fire services & local authority controlled schools or colleges)
	University or other grant funded educational establishment
	Health authority or NHS trust
	Charity, voluntary organisation or trust
	Your family (home maker)
	Armed forces
	None (unemployed)
	Other (please specify):
seve	ch of the following best describes the industry you work in? If you or your employer are involved in eral industries, please choose the one most relevant to the products or services you work on. This rmation will be kept private.
	Cloud-based solutions or services
	Consulting
	Data and analytics
	Financial technology or services
	Healthcare technology or services Information technology
	Media, advertising, publishing, or entertainment
	Retail or eCommerce
	Software as a service (SaaS) development
	Web development or design
	Other software development
	Other industry not listed here. Please state
Do y	ou currently reside in the UK? *
	Yes
	No (please specify your current country of residence):
	ch of the following do you currently identify as?If you prefer not to answer, you may leave this stion blank:
	Female
	Male

https://app.smartsurvey.co.uk/survey/print/id/526959?t=1&dst=true&dgl=true&dgl=true&dgb=false&dgn=true&dgn=true&dgl=tr

21/03/2019

21/03/	https://app.smartsurvey.co.uk/survey/print/id/526959?t=1&dst=true&dpt=true&dpb=false&dpn=true&dqn=true&dqb=false&st=363641
	Non-binary, genderqueer, or gender non-conforming
	Prefer not to say
	Other (please specify):
Whi	ch of the following do you identify as? If you prefer not to answer, you may leave this question blank.
. v	Vhite
	Asian or Asian British
	∕lixed Black or Black British
	Other Ethnic Group
	British
	Irish
	Other
	Indian
	Pakistani
	Bangladeshi
	Chinese
	Any other Asian background
	White and black Caribbean
	White and black African
	White and Asian
	Any other mixed background
	Caribbean
	African
	Any other black background
	Any other Ethnic Group
	Other (please specify):
<b>147</b> 1.	
wna	at is your age?If you prefer not to answer, you may leave this question blank.
	under 18
	18-24
	25-34
	35-54
	55-64

$21/03/2019 \qquad \qquad https://app.smartsurvey.co.uk/survey/print/id/526959?t=1\&dst=true\&dpt=true\&dpt=true\&dpb=false\&dpn=true\&dqn=true\&dqb=false\&st=363641$
65+
Do you have a disability? If you prefer not to answer, you may leave this question blank.
No disability
Disability but doesn't affect daily life
Disability and affects daily life
11. About this survey
Just a few questions to help us to improve the survey experience for others
How do you feel about the length of the survey that you just completed?
The survey was too short
The survey was an appropriate length
The survey was too long
How easy or difficult was this survey to complete?
Very Easy
Easy
Neutral Neutral
Difficult
Very Difficult
Would you like to stay in touch with DataKind UK work on best practice in data science and Al?
If yes please e-mail Tracey@datakind.org.uk with the subject heading "Responsible data- yes please!"