Meta-Artificial Intelligence Literacy Scale

In the following, you will read descriptions of different abilities that one can have when dealing with artificial intelligence. These abilities can be more or less pronounced. Please rate yourself: How pronounced are your abilities?

A value of **0** means that an ability is not at all or hardly pronounced. A value of **10** means that an ability is very well or (almost) perfectly pronounced.

Please circle the value that best describes your ability.

1.	I can oper 0	ate Al app 1	olications.	3	4	5	6	7	8	9	10
2.	I can use	AI applica 1	tions to m	ake my life 3	e easier. 4	5	6	7	8	9	10
								,	0	J	10
3.	I can use 0	artificial in	telligence 2	meaningfu 3	ally to achi 4	eve my go 5	als. 6	7	8	9	10
4. I can interact with AI in a way that makes my tasks easier.											
	0	1	2	3	4	5	6	7	8	9	10
5.	I can work	_	_			_					
	0	1	2	3	4	5	6	7	8	9	10
6.	I can com	municate	gainfully w 2	vith artificia	al intelligen 4	ice. 5	6	7	8	9	10
	-			_	•			,			10
7.	I know the	most imp	ortant cor 2	ncepts of th	ne topic "a 4	rtificial inte 5	elligence". 6	7	8	9	10
8.	I know de	finitions of	· artificial in	ntelligence	1.						
	0	1	2	3	4	5	6	7	8	9	10
9.	I can asse										
	0	1	2	3	4	5	6	7	8	9	10
10.	I can asse		_		dvantages 4		an artificia	al intelligei 7	nce entails 8		10
	0	1	2	3	4	5	0	′	0	9	10
11.	I can think	of new us	ses for Al. 2	3	4	5	6	7	8	9	10
40											
12.	I can imaç 0	ine possii 1	ole future (uses of AI. 3	4	5	6	7	8	9	10
13. I can tell if I am dealing with an application based on artificial intelligence.											
	0	1	2	3	4	5	6	7	8	9	10

14.	I can	disting	juish dev	rices that u	use Al fron	n devices t	hat do not	i.				
	0	•	1	2	3	4	5	6	7	8	9	10
15.		_				r a "real hu		^	-	•	•	40
	0		1	2	3	4	5	6	7	8	9	10
16.	I can v	•	the cons	sequences 2	of using a	Al for socie 4	ety. 5	6	7	8	9	10
17.	I can i	ncorp	orate eth	ical consi	derations	when deci	ding wheth	ner to use	data provid	ded by an	AI.	
	0	-	1	2	3	4	5	6	7	8	9	10
12	18. I can analyze AI-based applications for their ethical implications.											
10.	0	-	1	2	3	4	5	6	7	8	9	10
19.	I can	desigr	new Al	applicatio	ns.							
	0	•	1	2	3	4	5	6	7	8	9	10
20. I can program new applications in the field of "artificial intelligence".												
	0		1	2	3	4	5	6	7	8	9	10
0.4				1								
21.	0		op new A 1	I application	ons. 3	4	5	6	7	8	9	10
22.						s, progran			-		0	40
	0		1	2	3	4	5	6	7	8	9	10
23.	I can r	ely or	n my skill	s in difficu	It situation	ns when us	sing AI.					
	0	•	1	2	3	4	5	6	7	8	9	10
24	I can l	nandle	most nr	oblems in	dealing w	rith artificia	l intelligen	ce well on	my own			
	0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	3	4	5	6	7	8	9	10
25.	I can a		sually so 1	lve strenu 2	ous and c 3	omplicated	tasks who	en working 6	g with artifi 7	cial intellig 8	ence well 9	l. 10
			•	_		·			•			
26.			•	•		artificial in	•			-		
	0	,	1	2	3	4	5	6	7	8	9	10
27.	I can I	кеер ц	up with th	ne latest in	novations	in Al appli	ications.					
	0		1	2	3	4	5	6	7	8	9	10
28. Although there are often new AI applications, I manage to always be "up-to date".												
20.	0	_	ere are 0 1	2	3	4	5	6	7	8	9	10
29.	I don't		influenc 1	e me in m 2	y decision 3	s. 4	5	6	7	8	9	10
	U			_	3	7	J	U	,	U	9	10
30.	I can p	orever	nt an Al f		ncing me	in my deci	sions.					
	0	•	1	2	3	4	5	6	7	8	9	10

31. I realise if artificial intelligence is influencing me in my decisions.									
0 1 2 3 4 5 6 7 8	9	10							
32. I keep control over feelings like frustration and anxiety while doing things with AI.									
0 1 2 3 4 5 6 7 8	9	10							
33. I can handle it when interactions with AI frustrate or frighten me.									
0 1 2 3 4 5 6 7 8	9	10							
34. I can control my euphoria that arises when I use artificial intelligence for different purposes.									
0 1 2 3 4 5 6 7 8	9	10							

The Meta-Artificial Intelligence Literacy Scale is divided into the following sections. To determine the individual values, a mean score must be calculated from the corresponding items.

Artificial Intelligence Literacy

Use & Apply: Items 1 to 6
Know & Understand: Items 7 to 12
Detect AI: Items 13 to 15
AI Ethics: Items 16 to 18

Create Al Items 19 to 22

AI Self-Efficacy

Al Problem-Solving: Items 23 to 25 Learning: Items 26 to 28

Al Self-Competency

Persuasion Literacy: Items 29 to 31 Emotion Regulation: Items 32 to 34

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