

Perceived Artificial Intelligence Literacy Questionnaire (PAILQ-6)

Instructions: Please rate each statement based on your beliefs and feelings from 1 (strongly disagree) to 7 (strongly agree). There are no right or wrong answers.

1. I understand the basic concepts of artificial intelligence.

1 Strongly Disagree | 2 Disagree | 3 Somewhat Disagree | 4 Neutral | 5 Somewhat Agree | 6 Agree | 7 Strongly Agree

2. I believe I can contribute to AI projects.

1 Strongly Disagree | 2 Disagree | 3 Somewhat Disagree | 4 Neutral | 5 Somewhat Agree | 6 Agree | 7 Strongly Agree

3. I can judge the pros and cons of AI.

1 Strongly Disagree | 2 Disagree | 3 Somewhat Disagree | 4 Neutral | 5 Somewhat Agree | 6 Agree | 7 Strongly Agree

4. I keep up with the latest AI trends.

1 Strongly Disagree | 2 Disagree | 3 Somewhat Disagree | 4 Neutral | 5 Somewhat Agree | 6 Agree | 7 Strongly Agree

5. I'm comfortable talking about AI with others.

1 Strongly Disagree | 2 Disagree | 3 Somewhat Disagree | 4 Neutral | 5 Somewhat Agree | 6 Agree | 7 Strongly Agree

6. I can think of new ways to use existing AI tools.

1 Strongly Disagree | 2 Disagree | 3 Somewhat Disagree | 4 Neutral | 5 Somewhat Agree | 6 Agree | 7 Strongly Agree

Instruction for scoring and descriptive data from validation study for reference

(do not include in the questionnaire)

Scoring:

PAILQ-6: Average of all responses.

PAILQ-6 (factor 1: Awareness Literacy): Average of responses 1, 3, 5.

PAILQ-6 (factor 2: Engagement Literacy): Average of responses 2, 4, 6.

Data from validation study: 232 (116 males, 116 females) UK adults (data collection October 2023):

Descriptive Statistics for PAILS-6 Scales

	PAILS-6	PAILS-6 Factor 1	PAILS-6 Factor 2
Mean	4.29	4.93	3.65
Std. Error Mean	0.0756	0.0745	0.0924
95% CI Mean Lower Bound	4.14	4.78	3.46
95% CI Mean Upper Bound	4.44	5.07	3.83
Standard Deviation	1.15	1.13	1.41
Variance	1.33	1.29	1.98
IQR	1.67	1.33	2.00
Range	5.67	5.33	6.00
Minimum	1.33	1.67	1.00
Maximum	7.00	7.00	7.00
Skewness	-0.179	-0.632	-0.00738
Std. Error Skewness	0.160	0.160	0.160
Kurtosis	-0.349	0.117	-0.693
Std. Error Kurtosis	0.318	0.318	0.318
Shapiro-Wilk W	0.989	0.961	0.979
Shapiro-Wilk p	0.072	< .001	0.002
25th Percentile	3.50	4.33	2.67
50th Percentile (Median)	4.33	5.00	3.67
75th Percentile	5.17	5.67	4.67

Note: The CI of the mean assumes sample means follow a t-distribution with N - 1 degrees of freedom. The skewness and kurtosis values are accompanied by their standard errors, indicating the precision of these estimates. Percentiles provide additional information on the distribution of scores.