

AI Literacy Survey Instrument (Ayanwale et al., 2024)

Citation: Ayanwale, M. A., Adelana, O. P., Molefi, R. R., Adeeko, O., & Ishola, A. M. (2024). Examining artificial intelligence literacy among pre-service teachers for future classrooms. *Computers and education open*, 6, 100179.

Instructions: Please indicate your level of agreement with each statement below using a 7-point Likert scale:

1 = Strongly disagree, 2 = Disagree, 3 = Slightly disagree, 4 = Neutral, 5 = Slightly agree, 6 = Agree, 7 = Strongly agree.

Use & Apply AI (UAAI)

1. I can operate AI applications in everyday life.
2. I can use AI applications to make my everyday life easier.
3. In everyday life, I can interact with AI in a way that makes my tasks easier.
4. In everyday life, I can work together gainfully with an artificial intelligence.
5. I can communicate gainfully with artificial intelligence in everyday life.

Know & Understand AI (KUI)

1. I know the most important concepts of the topic 'artificial intelligence.'
2. I can assess the limitations and opportunities of using AI.
3. I can assess the advantages and disadvantages of using artificial intelligence.
4. I can imagine possible future uses of AI.

Detect AI (DEAI)

1. I can tell if I am dealing with an application based on artificial intelligence.
2. I can distinguish devices that use AI from devices that do not.

AI Ethics (AIET)

1. I can incorporate ethical considerations when deciding whether to use data provided by an AI.
2. I can analyze AI-based applications for their ethical implications.

Create AI (CRAI)

1. I can design new AI applications.
2. I can program new applications in the field of artificial intelligence.
3. I can develop new AI applications.
4. I can select useful tools (e.g., frameworks, programming languages) to program an AI.

AI Problem Solving (AIPS)

1. I can rely on my skills in difficult situations when using AI.
2. I can handle most problems in dealing with artificial intelligence well on my own.
3. I can usually solve strenuous and complicated tasks when working with artificial intelligence.

AI Persuasion Literacy (AIPL)

1. I don't let AI influence my everyday decisions.
2. I can prevent AI from influencing me in my everyday decisions.

AI Emotion Regulation (AIER)

1. I keep control over feelings like frustration and anxiety while doing everyday things with AI.
2. I can handle it when everyday interactions with AI frustrate or frighten me.
3. I can control my euphoria when I use artificial intelligence for everyday purposes.