

Supplementary Materials A

Table S1. Search strategy

Topic	Keywords
AI	"artificial intelligence" OR AI OR "machine learning" OR "deep learning" OR "neural network" OR "natural language processing" OR "computer vision" OR "intelligent agent*" OR "expert system" OR "automated tutor" OR "personal tutor*" OR "virtual tutor" OR "chatbot*" OR "intelligent virtual reality" OR "conversational agent*" OR "dialogue agent*" OR "virtual agent*" OR "AI assistant" OR "digital assistant" OR "conversational AI" OR "dialogue system*" OR "chat-based system*" OR chatbot OR "large language model*" OR LLM* OR "transformer model*" OR "foundation model*" OR "pre-trained language model*" OR "generative language model*" OR ChatGPT OR GPT OR Claude OR Gemini OR LLaMA OR PaLM OR Mistral OR Anthropic OR OpenAI OR "Meta AI" OR "Google DeepMind"
Questionnaire/Scale	"measurement" OR "questionnaire" OR "scale"
Validation	develop* OR assess* OR reliability OR valid* OR "factor analysis" OR "item response theory" OR IRT OR construction

Table S2. Words removed from the keywords analysis

Removed words
scale, questionnaire, development, artificial, intelligence, validation, validity, reliability, adaption, ai, developing, validating, assessment, measurement, confirmatory, measuring, psychometric, evaluation, study

Table S3. Words removed from the topic analysis

Removed words
scale, questionnaire, development, artificial, intelligence, validation, validity, reliability, adaption, ai, developing, validating, assessment, measurement, confirmatory, measuring, psychometric, evaluation, study, artificial intelligence, artificial-intelligence, scale development, generative artificial intelligence