

Supplementary file 3 – Search strategies

Medline

	exp Artificial Intelligence/ OR exp Natural Language Processing/ OR (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA).af.
	exp Translational Research, Biomedical/ or Quality Improvement/ or Health Services Research/ or Learning Health System/ or exp Organizational Innovation/ or exp Models, Theoretical/ or exp Implementation Science/ or exp "Diffusion of Innovation"/ or (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*).af. or ((implementation or intervention) adj30 (fidelity or "scale-up" or acceptability or feasibility or penetration or adoption or appropriateness or implementability or adoptability or sustainability or spread)).ab,ti,hw,kf,sh. or (implementation adj30 (feasibility or automation or sustain* or barrier* or enabler* or facilitator*)).ab,ti,hw,kf,sh.
	"evidence based".af. or exp Evidence-Based Medicine/
	(application or applying or using or utilization or utilizing or leveraging or leverage or "role of" or "impact of" or integrating or integrate or integrated or improving or enhancing or optimizing or optimize or optimization or facilitating or accelerating or supporting or streamlining or streamlined or automating or automate or predicting or personalizing or personalized).ab,ti. adj10 (implementation or translation or knowledge or diffusion).ti,ab.
	1 and 2 and 3 and 4
	Limit to 2010-present

Medline IS journals

	exp Artificial Intelligence/ OR exp Natural Language Processing/ OR (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep
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	learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA).af.
	("Implementation Science" or "JBI Evidence Implementation" or "Global Implementation Research and Applications" or "Translational Behavioral Medicine" or "Implementation Science Communications" or "Implementation Research and Practice").jn.
	1 AND 2
	limit 3 to yr="2010 -Current"
	After Removing duplicates in Endnote from previous search

Medline Other Journals

	exp Artificial Intelligence/ OR exp Natural Language Processing/ OR (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA).af.
	("BMC Health Services Research" or "BMJ Quality & Safety" or "Health Research Policy and Systems" or "Annual of Review of Public Health" or "American Journal of Public Health" or "American Journal of Preventive Medicine").jn.
	1 AND 2
	limit 3 to yr="2010 -Current"
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Embase

	exp Artificial Intelligence/ OR exp Natural Language Processing/ OR (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA).af.
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	exp Translational Research, Biomedical/ or Quality Improvement/ or Health Services Research/ or Learning Health System/ or exp Organizational Innovation/ or exp Models, Theoretical/ or exp Implementation Science/ or exp "Diffusion of Innovation"/ or (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*).af. or ((implementation or intervention) adj30 (fidelity or "scale-up" or acceptability or feasibility or penetration or adoption or appropriateness or implementability or adoptability or sustainability or spread)).ab,ti,hw,kf,od. or (implementation adj30 (feasibility or automation or sustain* or barrier* or enabler* or facilitator*)).ab,ti,hw,kf,od.
	"evidence based*".af. or exp Evidence-Based Medicine/
	(application or applying or using or utilization or utilizing or leveraging or leverage or "role of" or "impact of" or integrating or integrate or integrated or improving or enhancing or optimizing or optimize or optimization or facilitating or accelerating or supporting or streamlining or streamlined or automating or automate or predicting or personalizing or personalized).ab,ti. Adj10 (implementation or translation or knowledge or diffusion).ti,ab.
	1 and 2 and 3 and 4
	2010-present AND Remove Medline results

Embase IS Journals

	exp Artificial Intelligence/ OR exp Natural Language Processing/ OR (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA).af.
	("Implementation Science" or "JBI Evidence Implementation" or "Global Implementation Research and Applications" or "Translational Behavioral Medicine" or "Implementation Science Communications" or "Implementation Research and Practice").jn.
	1 and 2
	limit 3 to ("remove medline records" and yr="2010 -Current")
	After Removing duplicates in Endnote from previous search

Embase Other journals

	exp Artificial Intelligence/ OR exp Natural Language Processing/ OR (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA).af.
	("BMC Health Services Research" or "BMJ Quality & Safety" or "Health Research Policy and Systems" or "Annual of Review of Public Health" or "American Journal of Public Health" or "American Journal of Preventive Medicine").jn.
	1 and 2
	limit 6 to ("remove medline records" and yr="2010 -Current")
	After Removing duplicates in Endnote from previous search

PsychInfo

	exp Artificial Intelligence/ OR exp Natural Language Processing/ OR (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA).af.
	exp Theories/ or exp Organizational Innovation/ or (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*).af. or ((implementation or intervention) adj30 (fidelity or "scale-up" or acceptability or feasibility or penetration or adoption or appropriateness or implementability or adoptability or sustainability or spread)). ab,ti,hw,mh,mf,sh. or (implementation adj30 (feasibility or automation or sustain* or barrier* or enabler* or facilitator*)).ab,ti,hw,mh,mf,sh.

	(evidence-based*).af. or exp Evidence Based Practice/
	(application or applying or using or utilization or utilizing or leveraging or leverage or "role of" or "impact of" or integrating or integrate or integrated or improving or enhancing or optimizing or optimize or optimization or facilitating or accelerating or supporting or streamlining or streamlined or automating or automate or predicting or personalizing or personalized).ab,ti. Adj10 (implementation or translation or knowledge or diffusion).ti,ab.
	1 and 2 and 3 and 4
	2010-present; remove medline results

PsychInfo IS journals

	exp Artificial Intelligence/ OR exp Natural Language Processing/ OR (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA).af.
	("Implementation Science" or "JBI Evidence Implementation" or "Global Implementation Research and Applications" or "Translational Behavioral Medicine" or "Implementation Science Communications" or "Implementation Research and Practice").jn.
	1 and 2
	limit 3 to ("remove medline records" and yr="2010 -Current")
	After Removing duplicates in Endnote from previous search

PsychInfo Other journals

	exp Artificial Intelligence/ OR exp Natural Language Processing/ OR (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA).af.
	("BMC Health Services Research" or "BMJ Quality & Safety" or "Health Research Policy and Systems" or "Annual of Review of Public Health" or "American Journal of Public Health" or "American Journal of Preventive Medicine").jn.
	1 and 2

	limit 3 to ("remove medline records" and yr="2010 -Current")
	After Removing duplicates in Endnote from previous search

CINAHL

	(MH "Artificial Intelligence+") OR MW Artificial Intelligence OR MW Natural Language Processing OR MH Natural Language Processing OR TX (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR TI (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR AB (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR MW (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA)
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	OR SO (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR TC (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR AF (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR CR (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR GI (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis")
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	or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR IN (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR IR (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR NT (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA)
	(MH "Theory+") or (MH "Translational Medical Research") or (MH "Organizational Change") or (MH "Models, Theoretical+") or (MH "Diffusion of Innovation+") or (MH "Implementation Science") or (MH "Quality Improvement") or (MH "Health Services Research") or (MH "Learning Health System") or TX (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*) OR TI (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or

	implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*) OR AB (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*) OR MW (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*) OR SO (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*) OR TC (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*)
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	OR AF (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*) OR CR (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*) OR GI (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*) OR IN (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*) OR IR (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation
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	strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*) OR NT (Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or "behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*) OR TI ((implementation or intervention) N30 (fidelity or "scale-up" or acceptability or feasibility or penetration or adoption or appropriateness or implementability or adoptability or sustainability or spread)) OR AB ((implementation or intervention) N30 (fidelity or "scale-up" or acceptability or feasibility or penetration or adoption or appropriateness or implementability or adoptability or sustainability or spread)) OR MW ((implementation or intervention) N30 (fidelity or "scale-up" or acceptability or feasibility or penetration or adoption or appropriateness or implementability or adoptability or sustainability or spread)) OR TI (implementation N30 (feasibility or automation or sustain* or barrier* or enabler* or facilitator*)) OR AB (implementation N30 (feasibility or automation or sustain* or barrier* or enabler* or facilitator*)) OR MW (implementation N30 (feasibility or automation or sustain* or barrier* or enabler* or facilitator*))
	TX evidence-based* OR TI evidence-based* OR AB evidence-based* OR MW evidence-based* OR SO evidence-based* OR TC evidence-based* OR AF evidence-based* OR CR evidence-based* OR GI evidence-based* OR IN evidence-based* OR IR evidence-based* OR NT evidence-based* OR (MH "Professional Practice, Evidence-Based+") OR (MH "Evidence Gaps")
	TI ((application or applying or using or utilization or utilizing or leveraging or leverage or "role of" or "impact of" or integrating or integrate or integrated or improving or enhancing or optimizing or optimize or optimization or facilitating or accelerating or supporting or streamlining or streamlined or automating or

	automate or predicting or personalizing or personalized) N10 (implementation or translation or knowledge or diffusion)) or AB ((application or applying or using or utilization or utilizing or leveraging or leverage or "role of" or "impact of" or integrating or integrate or integrated or improving or enhancing or optimizing or optimize or optimization or facilitating or accelerating or supporting or streamlining or streamlined or automating or automate or predicting or personalizing or personalized) N10 (implementation or translation or knowledge or diffusion))
	1 and 2 and 3 and 4
	2010-present; remove medline results

CINAHL IS journals

	(MH "Artificial Intelligence+") OR MW Artificial Intelligence OR MW Natural Language Processing OR MH Natural Language Processing OR TX (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR TI (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR AB (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR MW (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert
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	system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR SO (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR TC (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR AF (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR CR (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA) OR GI (artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic
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	SO ("Implementation Science" or "JBI Evidence Implementation" or "Global Implementation Research and Applications" or "Translational Behavioral Medicine" or "Implementation Science Communications" or "Implementation Research and Practice")
	1 AND 2
	Limiters - Publication Date: 20100101-20250631; Exclude MEDLINE records
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	SO ("BMC Health Services Research" or "BMJ Quality & Safety" or "Health Research Policy and Systems" or "Annual of Review of Public Health" or "American Journal of Public Health" or "American Journal of Preventive Medicine")
	1 AND 2
	Limiters - Publication Date: 20100101-20250631; Exclude MEDLINE records
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Web of Science

1	ALL=((artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA))
2	ALL=((Organizational Innovation or Translational Research or diffusion of innovation or "implementation science" or "implementation research" or implementation practice* or "quality improvement" or "health services research" or "improvement science" or "learning health system" or "learning healthcare system" or implementation strateg* or implementation process* or "knowledge translation" or "knowledge to action" or "intervention uptake" or "intervention adoption" or intervention outcome* or "program implementation" or "behavior change" or

	"behaviour change" or "dissemination and implementation" or "practice change" or "real-world implementation" or "translation of evidence" or framework* or model or models or theory or theories or implementation outcome*))
3	(((TS=((implementation or intervention) NEAR/30 (fidelity or "scale-up" or acceptability or feasibility or penetration or adoption or appropriateness or implementability or adoptability or sustainability or spread))) OR AB=((implementation or intervention) NEAR/30 (fidelity or "scale-up" or acceptability or feasibility or penetration or adoption or appropriateness or implementability or adoptability or sustainability or spread))) OR AK=((implementation or intervention) NEAR/30 (fidelity or "scale-up" or acceptability))) OR TI=((implementation or intervention) NEAR/30 (fidelity or "scale-up" or acceptability or feasibility or penetration or adoption or appropriateness or implementability or adoptability or sustainability or spread))) OR TI=((implementation NEAR/30 (feasibility or automation or sustain* or barrier* or enabler* or facilitator*))) OR TS=((implementation NEAR/30 (feasibility or automation or sustain* or barrier* or enabler* or facilitator*))) OR AB=((implementation NEAR/30 (feasibility or automation or sustain* or barrier* or enabler* or facilitator*)))
4	2 OR 3
5	ALL=(Evidence-Based*)
6	(TI=((application or applying or using or utilization or utilizing or leveraging or leverage or "role of" or "impact of" or integrating or integrate or integrated or improving or enhancing or optimizing or optimize or optimization or facilitating or accelerating or supporting or streamlining or streamlined or automating or automate or predicting or personalizing or personalized) NEAR/10 (implementation or translation or knowledge or diffusion))) OR AB=((application or applying or using or utilization or utilizing or leveraging or leverage or "role of" or "impact of" or integrating or integrate or integrated or improving or enhancing or optimizing or optimize or optimization or facilitating or accelerating or supporting or streamlining or streamlined or automating or automate or predicting or personalizing or personalized) NEAR/10 (implementation or translation or knowledge or diffusion))
	1 AND 2 AND 4 and 6
	2010- present

Web of Science IS Journals

	ALL=((artificial intelligence or Natural Language Processing or "ai" or "machine learning" or "deep learning" or "neural network" or "large language model" or "generative model*" or LLM* or "transformer model*" or "language model*" or "generative AI" or "foundation model*" or "predictive model*" or "supervised learning" or "unsupervised learning" or "reinforcement learning" or "expert system*" or "pattern recognition" or "text mining" or "literature mining" or "evidence extraction" or "automated review" or "sentiment analysis" or "topic modeling" or "text classification" or "counterfactual analysis" or "scenario analysis" or "bias detection" or "ChatGPT" or "GPT-" or BERT or RoBERTa or Gemma or LLaMA))
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	SO=("Implementation Science" or "JBI Evidence Implementation" or "Global Implementation Research and Applications" or "Translational Behavioral Medicine" or "Implementation Science Communications" or "Implementation Research and Practice")
	1 AND 2
	Limit 2010-present
	After Removing duplicates in Endnote from previous search

Web of Science other journals

	ALL=((artificial intelligence OR Natural Language Processing OR "ai" or "a.i." or "machine learning" OR "deep learning" OR "neural network" OR "large language model" OR "generative model*" OR "transformer model*" OR "language model*" OR "predictive model*" OR "supervised learning" OR "unsupervised learning" OR "reinforcement learning" OR "automated decision-making" OR "decision support system*" OR "expert system*" OR chatbot* OR "virtual assistant*" OR "pattern recognition" OR "text mining" OR "literature mining" OR "evidence extraction" OR "automated review" OR "sentiment analysis" OR "topic modeling" OR "text classification" OR "Bayesian network*" OR "causal inference" OR "causal model*" OR "counterfactual analysis" OR "simulation model*" OR "scenario analysis" OR "generalization" OR "generalization" OR "bias detection" OR "algorithm*" OR "ChatGPT"))
	SO=("BMC Health Services Research" or "BMJ Quality & Safety" or "Health Research Policy and Systems" or "Annual of Review of Public Health" or "American Journal of Public Health" or "American Journal of Preventive Medicine")
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IEEE Xplore

	((("All Metadata":artificial intelligence OR "All Metadata":Natural Language Processing OR "All Metadata":“ai” or "a.i." or "machine learning" OR "All Metadata":“deep learning” OR "All Metadata":“neural network” OR "All Metadata":“large language model” OR "All Metadata":generative model OR “All Metadata”:LLM OR "All Metadata":transformer model OR "All Metadata":language model OR “All Metadata”:“generative AI” OR “All Metadata”:foundation model OR "All Metadata":predictive model OR "All Metadata":“supervised learning” OR "All Metadata":“unsupervised learning” OR "All Metadata":“reinforcement learning” OR "All Metadata":expert system OR "All Metadata":“pattern recognition” OR "All Metadata":“text mining” OR "All Metadata":“literature mining” OR "All Metadata":“evidence extraction” OR "All Metadata":“automated review” OR "All Metadata":“sentiment analysis” OR "All Metadata":“topic modeling” OR "All Metadata":“text classification” OR "All Metadata":“counterfactual analysis” OR "All Metadata":“scenario analysis” OR "All Metadata":bias detection OR "All Metadata":“ChatGPT” OR “All Metadata”:GPT OR “All Metadata”:BERT OR “All Metadata”:RoBERTa OR “All Metadata”:Gemma OR “All Metadata”:LLaMA) AND
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	(("All Metadata":Organizational Innovation OR "All Metadata":Translational Research OR "All Metadata":diffusion of innovation OR "All Metadata":implementation science OR "All Metadata":implementation research" OR "All Metadata":implementation practice OR "All Metadata":quality improvement" OR "All Metadata":improvement science" OR "All Metadata":learning health system" OR "All Metadata":learning healthcare system" OR "All Metadata":implementation strategy OR "All Metadata":implementation process OR "All Metadata":knowledge translation" OR "All Metadata":knowledge to action" OR "All Metadata":intervention uptake" OR "All Metadata":intervention adoption" OR "All Metadata":intervention outcome OR "All Metadata":program implementation" or "behavior change" OR "All Metadata":behaviour change" OR "All Metadata":dissemination and implementation" OR "All Metadata":practice change" OR "All Metadata":real-world implementation" OR "All Metadata":translation of evidence" OR "All Metadata":framework OR "All Metadata":model OR "All Metadata":theory OR "All Metadata":implementation outcome) OR ((("Abstract":implementation OR "Abstract":intervention) NEAR/30 ("Abstract":fidelity OR "Abstract":scale-up" OR "Abstract":acceptability OR "Abstract":feasibility OR "Abstract":penetration OR "Abstract":adoption OR "Abstract":appropriateness OR "Abstract":implementability OR "Abstract":adoptability OR "Abstract":sustainability OR "Abstract":spread)) OR ((("Document Title":implementation OR "Document Title":intervention) NEAR/30 ("Document Title":fidelity OR "Document Title":scale-up" OR "Document Title":acceptability OR "Document Title":feasibility OR "Document Title":penetration OR "Document Title":adoption OR "Document Title":appropriateness OR "Document Title":implementability OR "Document Title":adoptability OR "Document Title":sustainability OR "Document Title":spread)) OR (("Document Title":implementation NEAR/30 ("Document Title":feasibility OR "Document Title":automation OR "Document Title":sustain* OR "Document Title":barrier OR "Document Title":enabler OR "Document Title":facilitator)) OR ("Abstract":implementation NEAR/30 ("Abstract":feasibility OR "Abstract":automation OR "Abstract":sustain* OR "Abstract":barrier OR "Abstract":enabler OR "Abstract":facilitator)) OR ("Author Keywords":implementation NEAR/30 (feasibility OR "Author Keywords":automation OR "Author Keywords":sustain* OR "Author Keywords":barrier OR "Author Keywords":enabler OR "Author Keywords":facilitator)) OR ("Index Terms":implementation NEAR/30 ("Index Terms":feasibility OR "Index Terms":automation OR "Index Terms":sustain* OR "Index Terms":barrier OR "Index Terms":enabler OR "Index Terms":facilitator))) AND ("All Metadata":Evidence-based) AND ((("Document Title":application OR "Document Title":applying OR "Document Title":using OR "Document Title":utilization OR "Document Title":utilizing OR "Document Title":leveraging OR "Document Title":leverage OR "Document Title":role of" OR "Document Title":impact of" OR "Document Title":integrating OR "Document Title":integrate OR "Document Title":integrated OR "Document Title":improving OR "Document Title":enhancing OR "Document Title":optimizing OR "Document Title":optimize OR "Document Title":optimization OR "Document Title":facilitating OR "Document Title":accelerating OR "Document Title":supporting OR "Document
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	Title":streamlining OR "Document Title":streamlined OR "Document Title":automating OR "Document Title":automate OR "Document Title":predicting OR "Document Title":personalizing OR "Document Title":personalized NEAR/10 (implementation OR "Document Title":translation OR "Document Title":knowledge OR "Document Title":diffusion)) OR ("Abstract":application OR "Abstract":applying OR "Abstract":using OR "Abstract":utilization OR "Abstract":utilizing OR "Abstract":leveraging OR "Abstract":leverage OR "Abstract":role of" OR "Abstract":impact of" OR "Abstract":integrating OR "Abstract":integrate OR "Abstract":integrated OR "Abstract":improving OR "Abstract":enhancing OR "Abstract":optimizing OR "Abstract":optimize OR "Abstract":optimization OR "Abstract":facilitating OR "Abstract":accelerating OR "Abstract":supporting OR "Abstract":streamlining OR "Abstract":streamlined OR "Abstract":automating OR "Abstract":automate OR "Abstract":predicting OR "Abstract":personalizing OR "Abstract":personalized NEAR/10 (implementation OR "Abstract":translation OR "Abstract":knowledge OR "Abstract":diffusion))))
	2010-present

IEEE Xplore IS Journals

	((("All Metadata":artificial intelligence OR "All Metadata":Natural Language Processing OR "All Metadata":“ai” or "a.i." or "machine learning" OR "All Metadata":“deep learning” OR "All Metadata":“neural network” OR "All Metadata":“large language model” OR "All Metadata":generative model OR "All Metadata":transformer model OR "All Metadata":language model OR "All Metadata":predictive model OR "All Metadata":supervised learning OR "All Metadata":unsupervised learning OR "All Metadata":reinforcement learning OR "All Metadata":“automated decision-making” OR "All Metadata":decision support system OR "All Metadata":expert system OR "All Metadata":chatbot OR "All Metadata":virtual assistant OR "All Metadata":“pattern recognition” OR "All Metadata":“text mining” OR "All Metadata":“literature mining” OR "All Metadata":“evidence extraction” OR "All Metadata":“automated review” OR "All Metadata":“sentiment analysis” OR "All Metadata":“topic modeling” OR "All Metadata":“text classification” OR "All Metadata":Bayesian network OR "All Metadata":causal inference OR "All Metadata":causal model OR "All Metadata":“counterfactual analysis” OR "All Metadata":simulation model OR "All Metadata":“scenario analysis” OR "All Metadata":“generalization” OR "All Metadata":“generalization” OR "All Metadata":bias detection OR "All Metadata":algorithm OR "All Metadata":“ChatGPT”))
	("Publication Title":“Implementation Science” OR "Publication Title":“Translational Behavioral Medicine” OR "Publication Title":“Implementation Science Communications” OR "Publication Title":“Implementation Research and Practice”)
	1 AND 2

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