Supplemental Files

Table S4. List of studies excluded at the full-text screening stage.

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|  | Title | Reference | Exclusion reason |
| 1 | How do you feel? Using natural language processing to automatically rate emotion in psychotherapy | (Tanana et al., 2021) | It’s a preprint paper. |
| 2 | Bias Against 93 Stigmatized Groups in Masked Language Models and Downstream Sentiment Classification Tasks | (Mei et al., 2023) | It’s a preprint paper. |
| 3 | LAXARY: A Trustworthy Explainable Twitter Analysis Model for Post-Traumatic Stress Disorder Assessment | (Ul Alam et al., 2020) | It’s a preprint paper. |
| 4 | Few-shot Language Coordination by Modeling Theory of Mind | (Zhu et al., 2021) | It’s a preprint paper. |
| 5 | Exploring the Efficacy of Robotic Assistants with ChatGPT and Claude in Enhancing ADHD Therapy: Innovating Treatment Paradigms | (Berrezueta-Guzman et al., 2024) | It’s a preprint paper. |
| 6 | Large Language Models Improve Alzheimer's Disease Diagnosis Using Multi-Modality Data | (Feng et al., 2023) | It’s a preprint paper. |
| 7 | Chain-of-Interaction: Enhancing Large Language Models for Psychiatric Behavior Understanding by Dyadic Contexts | (Han et al., 2024) | It’s a preprint paper. |
| 8 | SAPIEN: Affective Virtual Agents Powered by Large Language Models\* | (Hasan et al., 2023) | It’s a preprint paper. |
| 9 | Empirical Evaluation of Pre-trained Transformers for Human-Level NLP: The Role of Sample Size and Dimensionality | (Ganesan et al., 2021) | It’s a preprint paper. |
| 10 | GLUCOSE: GeneraLized and COntextualized Story Explanations | (Mostafazadeh et al., 2020) | It’s a preprint paper. |
| 11 | The usefulness of ChatGPT for psychotherapists and patients | (Raile, 2024) | It’s a preprint paper. |
| 12 | Cognitive Reframing of Negative Thoughts through Human-Language Model Interaction | (Sharma et al., 2023) | It’s a preprint paper. |
| 13 | PsyQA: A Chinese Dataset for Generating Long Counseling Text for Mental Health Support | (Sun et al., 2021) | It’s a preprint paper. |
| 14 | Using ChatGPT to promote college students' participation in physical activities and its effect on mental health | (Zhang and Liu, 2024) | It’s a preprint paper. |
| 15 | The Artificial Third: A Broad View of the Effects of Introducing Generative Artificial Intelligence on Psychotherapy | (Haber et al., 2024) | It’s a review. |
| 16 | ChatGPT on ECT: Can Large Language Models Support Psychoeducation? | (Lundin et al., 2023) | It’s a review. |
| 17 | Large language models could change the future of behavioral healthcare: a proposal for responsible development and evaluation | (Stade et al., 2024) | It’s a review. |
| 18 | ChatGPT and mental healthcare: balancing benefits with risks of harms | (Blease & Torous, 2023) | It’s a review. |
| 19 | Comparing the Perspectives of Generative AI, Mental Health Experts, and the General Public on Schizophrenia Recovery: Case Vignette Study | (Elyoseph & Levkovich, 2024) | It’s a review. |
| 20 | The Role of Humanization and Robustness of Large Language Models in Conversational Artificial Intelligence for Individuals With Depression: A Critical Analysis | (Ferrario et al., 2024) | It’s a review. |
| 21 | Large Language Models and Healthcare Alliance: Potential and Challenges of Two Representative Use Cases | (García-Méndez & de Arriba-Pérez, 2024) | It’s a review. |
| 22 | Can Large Language Models Replace Therapists? Evaluating Performance at Simple Cognitive Behavioral Therapy Tasks | (Hodson & Williamson, 2024) | It’s a review. |
| 23 | Beyond rating scales: With targeted evaluation, large language models are poised for psychological assessment | (Kjell et al., 2024) | It’s a review. |
| 24 | The Opportunities and Risks of Large Language Models in Mental Health | (Lawrence et al., 2024) | It’s a review. |
| 25 | Clinical Accuracy of Large Language Models and Google Search Responses to Postpartum Depression Questions: Cross-Sectional Study | (Sezgin et al., 2023) | It’s a review. |
| 26 | Large language models in psychiatry: Opportunities and challenges | (Volkmer et al., 2024) | It’s a review. |
| 27 | ChatGPT: Opportunities, risks and priorities for psychiatry | (Wei et al., 2023) | It’s a review. |
| 28 | Psychological insights into the research and practice of embodied conversational agents, chatbots and social assistive robots: a systematic meta-review | (Kiuchi et al., 2023) | It’s a review. |
| 29 | Prompt engineering for digital mental health: a short review | (Priyadarshana et al., 2024) | It’s a review. |
| 30 | Development of multimodal sentiment recognition and understanding | (Tao et al., 2024) | It’s a review. |
| 31 | An Integrative Survey on Mental Health Conversational Agents to Bridge Computer Science and Medical Perspectives | (Cho et al., 2023) | It's a review. |
| 32 | An Introduction to Generative Artificial Intelligence in Mental Health Care: Considerations and Guidance | (King et al., 2023) | It's a review. |
| 33 | Large Language Models in Biomedical and Health Informatics: A Review with Bibliometric Analysis | (Yu et al., 2024) | It's a review. |
| 34 | A conversational agent framework for mental health screening: design, implementation, and usability | (Boian et al., 2024) | It’s not mainly about LLMs. |
| 35 | Multi-layer Partial Information Fusion Model for Psychological Crisis Identification of Online Forum Users | (Liu et al., 2021) | It’s not mainly about LLMs. |
| 36 | Predicting implicit attitudes with natural language data | (Sudeep & Lukasz, 2023) | It’s not mainly about LLMs. |
| 37 | Post-traumatic Stress Disorder – Assessment of Current Diagnostic Definitions | (Bondjers, 2020) | It’s not mainly about LLMs. |
| 38 | Distinguishing clinical and genetic risk factors for suicidal ideation and behavior in a diverse hospital population | (Douglas et al., 2023) | It’s not mainly about LLMs. |
| 39 | Temporal communication dynamics in the aftermath of large-scale upheavals: do digital footprints reveal a stage model? | (Flores & Hilbert, 2023) | It’s not mainly about LLMs. |
| 40\* | Exploring Mental Health Education for University Students in the Age of Large Language Models | (Liu & Li, 2023) | It’s not mainly about LLMs. |
| 41 | Predicting the language of depression from multivariate twitter data using a feature-rich hybrid deep learning model | (Kour & Gupta, 2022) | It’s not mainly about LLMs. |
| 42\* | Research on Detection of the Causes of Suicidal | (Liu, 2020) | It’s not mainly about LLMs. |
| 43\* | Enabling large-scale research on autism spectrum disorders | (Leroy, 2017) | It’s not mainly about LLMs. |
| 44\* | Research on Textual Adversarial Attack Against Deep Learning Model | (Andy, 2021) | It’s not mainly about LLMs. |
| 45\* | Predicting Self-Harm, Suicide Attempt, and Suicidal Death using Longitudinal EHR, Claims and Mortality Data | (George et al., 2019) | It’s not mainly about LLMs. |
| 46\* | Identification of Trauma-related Features in EHR Data for Patients with Psychosis and Mood Disorders | (Hall et al., 2022) | It’s not mainly about LLMs. |
| 47 | Predicting and Characterizing the Health of Individuals and Communities through Language Analysis of Social Media | (Eichstaedt, 2017) | It’s not mainly about LLMs. |
| 48 | Natural language processing of clinical mental health notes may add predictive value to existing suicide risk models | (Levis et al., 2021) | It’s not mainly about LLMs. |
| 49 | Plan Explanations that Exploit a Cognitive Spatial Model | (Korpan et al., 2021) | It’s not mainly about LLMs. |
| 50 | Stress detection using natural language processing and machine learning over social interactions | (Nijhawan et al., 2022) | It’s not mainly about LLMs. |
| 51 | Detecting schizophrenia, bipolar disorder, psychosis vulnerability and major depressive disorder from 5 minutes of online-collected speech | (Olah et al., 2024) | It’s not mainly about LLMs. |
| 52 | Influencing human-AI interaction by priming beliefs about AI can increase perceived trustworthiness, empathy and effectiveness | (Pataranutaporn et al., 2023) | It’s not mainly about LLMs. |
| 53 | Can x2vec save lives? Integrating graph and language embeddings for automatic mental health classification | (Ruch, 2020) | It’s not mainly about LLMs. |
| 54 | CROSS-DEMOGRAPHIC PORTABILITY OF DEEP NLP-BASED DEPRESSION MODELS | (Rutowski et al., 2021) | It’s not mainly about LLMs. |
| 55 | What Can AI Do in Precision Psychiatry? A Study in Electronic Health Records | (Sheu, 2019) | It’s not mainly about LLMs. |
| 56 | Using natural language processing to identify opioid use disorder in electronic health record data | (Singleton et al., 2023) | It’s not mainly about LLMs. |
| 57 | Identifying emerging trends and hot topics through intelligent data mining: the case of clinical psychology and psychotherapy | (Sokolova et al., 2024) | It’s not mainly about LLMs. |
| 58 | Predicting Patients' Satisfaction With Mental Health Drug Treatment Using Their Reviews: Unified Interchangeable Model Fusion Approach | (Wang et al., 2023) | It’s not mainly about LLMs. |
| 59 | Efficient Reuse of Natural Language Processing Models for Phenotype-Mention Identification in Free-text Electronic Medical Records: A Phenotype Embedding Approach | (Wu et al., 2019) | It’s not mainly about LLMs. |
| 60 | Hierarchical Convolutional Attention Network for Depression Detection on Social Media and Its Impact During Pandemic | (Zogan et al., 2024) | It’s not mainly about LLMs. |
| 61 | Toward Automatic Tutoring of Math Word Problems in Intelligent Tutoring Systems | (Arnau-González et al., 2023) | It’s not mainly about LLMs. |
| 62 | REDE - Detecting human emotions using CNN and RASA | (Gupta et al., 2022) | It’s not mainly about LLMs. |
| 63 | Detection of multiple emotions in texts using a new deep convolutional neural network | (Izadkhah, 2022) | It’s not mainly about LLMs. |
| 64 | GUI: An Interface for Hate Speech Detection using NLP Technique | (Jain & Sharma, 2023) | It’s not mainly about LLMs. |
| 65 | Deep Learning and Natural Language Processing-Based Model for the Prediction of Suicidal Ideation in Military Personnel | (Katoch et al., 2023) | It’s not mainly about LLMs. |
| **66** | **Hybrid LSTM-TCN Model for Predicting Depression using Twitter Data** | **(Kour & Gupta, 2022)** | **It’s not mainly about LLMs.** |
| 67 | Does Social Media Feed Tell about Your Mental State? A Deep Randomised Neural Network Approach | (Kumar & Nisha 2022) | It’s not mainly about LLMs. |
| 68 | Novel Transformer Based Contextualized Embedding and Probabilistic Features for Depression Detection From Social Media | (Abbas et al., 2024) | It’s not mainly about LLMs. |
| 69 | News Media Framing of Suicide Circumstances and Gender: Mixed Methods Analysis | (Foriest et al., 2024) | It’s not mainly about LLMs. |
| 70 | A Multi-Class Deep Learning Approach for Early Detection of Depressive and Anxiety Disorders Using Twitter Data | (Bendebane et al., 2023) | It’s not mainly about LLMs. |
| 71 | Examining the role of AI technology in online mental healthcare: opportunities, challenges, and implications, a mixed-methods review | (Gutierrez et al., 2024) | It’s not mainly about LLMs. |
| 72 | Bored to death: Artificial Intelligence research reveals the role of boredom in suicide behavior | (Lissak et al., 2024) | It’s not mainly about LLMs. |
| 73 | Detecting Symptoms of Depression on Reddit | (Liu et al., 2023) | It’s not mainly about LLMs. |
| 74 | Assessing and managing the suicidal patient: forget the Reverend Bayes and try game theory | (Nielssen, 2024) | It’s not mainly about LLMs. |
| 75 | Predictive Analytics in Mental Health Leveraging LLM Embeddings and Machine Learning Models for Social Media Analysis | (Radwan et al., 2024) | It’s not mainly about LLMs. |
| 76 | Public Surveillance of Social Media for Suicide Using Advanced Deep Learning Models in Japan: Time Series Study From 2012 to 2022 | (Wang et al., 2023) | It’s not mainly about LLMs. |
| 77 | An Intelligent Assistant Diagnosis Method for Autistic Children based on Chinese Multimodal Discourse Corpus | (Liang, 2022) | It’s not mainly about LLMs. |
| 78 | Machine Feeling by Knowledge Acquisition with Emotion Map | (Lim et al., 2024) | It’s not mainly about LLMs. |
| 79 | An Intelligent Psychological Emotion Management System based on Multi-turn Voice Dialogue | (Lin et al., 2024) | It’s not mainly about LLMs. |
| 80 | Hybrid Model for Analysis of Social Media Posts for Identification of Depression and Measuring Its Severity | (Nanavati & Patel, 2023) | It’s not mainly about LLMs. |
| 81 | Design of Mental Health Consultation System Based on Deep Learning Algorithm | (Ran & Han, 2023) | It’s not mainly about LLMs. |
| 82 | Addressing the Productivity Paradox in Healthcare with Retrieval Augmented Generative AI Chatbots | (Ranasinghe et al., 2024) | It’s not mainly about LLMs. |
| 83 | Mental Health Disorder Identification From Motivational Conversations | (Saha et al., 2023) | It’s not mainly about LLMs. |
| 84 | Review on Early Prediction of Body Dysmorphic Disorder Using Machine Learning | (Saini & Prasad, 2023) | It’s not mainly about LLMs. |
| 85 | Daily Mental Health Monitoring from Speech: A Real-World Japanese Dataset and Multitask Learning Analysis | (Song et al., 2023) | It’s not mainly about LLMs. |
| 86 | User Feedback Severity Level Identification and Classification through Deeper Analysis of Text | (Umair et al., 2023) | It’s not mainly about LLMs. |
| 87 | A Multilevel Predictive Model for Detecting Social Network Users with Depression | (Wongkoblap et al., 2018) | It’s not mainly about LLMs. |
| 88 | HICEM: A High-Coverage Emotion Model for Artificial Emotional Intelligence | (Wortman & Wang, 2024) | It’s not mainly about LLMs. |
| 89 | Climate and Weather: Inspecting Depression Detection via Emotion Recognition | (Wu et al., 2022) | It’s not mainly about LLMs. |
| 90 | Design of Intelligent Dispatching System Based on Human Voice Adaptive Speech Recognition | (Xiang et al., 2021) | It’s not mainly about LLMs. |
| 91 | Assessing dimensions of thought disorder with large language models: The tradeoff of accuracy and consistency | (Pugh et al., 2024) | It’s not mainly about LLMs. |
| 92 | Natural Language Processing for Depression Prediction on Sina Weibo: Method Study and Analysis | (Zhang et al., 2024) | It’s not mainly about LLMs. |
| 93 | Identifying Suicidal Adolescents from Mental Health Records Using Natural Language Processing | (Velupillai et al., 2019) | It’s not mainly about LLMs. |
| 94 | Understanding the Benefits and Challenges of Using Large Language Model-based Conversational Agents for Mental Well-being Support | (Ma et al., 2023) | It has not yet been published in a journal or at a conference. |
| 95 | Visualizing Mental Health Insights: A Pipeline from Social Media to Chernoff Faces | (Nagi et al., 2024) | It has not yet been published in a journal or at a conference. |
| 96 | Clinical decision support for bipolar depression using large language models | (Perlis et al., 2024) | It has not yet been published in a journal or at a conference. |
| 97\* | Computational ontology of brain systems across the human neuroimaging literature | (Beam et al., 2021) | It has not yet been published in a journal or at a conference. |
| 98\* | Research on Text Sentiment Analysis Based on Deep Pretraining Language Model | (He, 2021) | It has not yet been published in a journal or at a conference. |
| 99\* | Research on Key Technologies for Social Media Text Sentiment Analysis | (Li, 2020) | It has not yet been published in a journal or at a conference. |
| 100\* | Research and Implementation of DomainOriented Text Sentiment Analysis Technology Based on Deep Learnin | (Chen, 2019) | It has not yet been published in a journal or at a conference. |
| 101\* | Depression Detection Research Based on Social Media | (Cui, 2023) | It has not yet been published in a journal or at a conference. |
| 102\* | Design and Implementation of the Software System of Psychological Consultation Robot Based on Deep Learning | (Yan, 2023) | It has not yet been published in a journal or at a conference. |
| 103 | Towards Clinically Improved NLP for Psycholinguistic Understanding | (Aich, 2024) | It has not yet been published in a journal or at a conference. |
| 104 | Exploring Large Language Models for Mental Health Analysis: Performance Evaluation and Comprehensive Analysis on Different Reddit Mental Health Communities | (Bhandari, 2024) | It has not yet been published in a journal or at a conference. |
| 105 | Empowering Emotional Support Chatbots With Large Language Models | (Pushparaj, 2024) | It has not yet been published in a journal or at a conference. |
| 106 | Neonatal Toxic Stress and Long-Term Neurodevelopment in Premature Infants | (Sey, 2021) | It has not yet been published in a journal or at a conference. |
| 107 | Human-AI Collaboration to Support Mental Health and Well-Being | (Sharma, 2024) | It has not yet been published in a journal or at a conference. |
| 108 | Harnessing Large Language Models for Mental Health: From Sentiment Analysis to Depression Screening | (Sood, 2024) | It has not yet been published in a journal or at a conference. |
| 109 | Essays on Digital Technology-Enabled Mental Healthcare Delivery | (Tang, 2024) | It has not yet been published in a journal or at a conference. |
| 110\* | Harnessing Large Language Models to measure and improve autobiographical memory problems among people with mental health problems | (Tom & Hallford, 2024) | It has not yet been published in a journal or at a conference. |
| 111 | Detecting Risky Alcohol Use With Natural Language Processing and Computable Phenotypes in Clinical Records | (Weber, 2024) | It has not yet been published in a journal or at a conference. |
| 112 | Investigating Major Topics Through the Analysis of Depression-related Facebook Group Posts | (Zhu et al. 2019) | It has not yet been published in a journal or at a conference. |
| 113\* | Prostate cancer is a heterogeneous disease, displaying a multitude of genetic alterations, histological patterns and clinical outcomes. This heterogen | (Nevado-Holgado and Taylor, 2024) | It has not yet been published in a journal or at a conference. |
| 114\* | Unlocking mental health records at scale using few-shot AI | (Gao, 2024) | It has not yet been published in a journal or at a conference. |
| 115 | Speech and Text Psychometrics: Identifying Suicide Risk Factors With Large Language Models and Acoustic Networks | (Low, 2024) | It has not yet been published in a journal or at a conference. |
| 116\* | Leveraging Large Language Models and Machine Learning Algorithms to Assess Depression and Anxiety Symptoms and Risks for Patients with Cardiovascular Disease or Diabetes Mellitus | (Kim, 2024) | It has not yet been published in a journal or at a conference. |
| 117 | Textual Mental Illness Detection from Social Media Using Deep Learning | (Zhang, 2024) | It has not yet been published in a journal or at a conference. |
| 118 | [Performance of generative pre-trained transformer-4 on the certification test for mental health management: A factorial design] | (Watanabe et al., 2024) | It has not yet been published in a journal or at a conference. |
| 119 | Mental Health Prediction from Social Media Text Using Mixture of Experts | (dos Santos et al., 2023) | It has not yet been published in a journal or at a conference. |
| 120 | Mental-Health Topic Classification employing D-vectors of Large Language Models | (Luna-Jimenéz et al., 2024) | It has not yet been published in a journal or at a conference. |
| 121 | Gaze and Head Movement Patterns of Depressive Symptoms During Conversations with Emotional Virtual Humans | (Marín-Morales, Llanes-Jurado et al. 2023) | It has not yet been published in a journal or at a conference. |
| 122 | Conceptualizing Suicidal Behavior: Utilizing Explanations of Predicted Outcomes to Analyze Longitudinal Social Media Data | (Marín-Morales et al., 2023) | It has not yet been published in a journal or at a conference. |
| 123 | ProDepDet: Out-of-domain Knowledge Transfer of Pre-trained Large Language Models for Depression Detection in Text-Based Multi-Party Conversations | (Priyadarshana et al., 2024) | It has not yet been published in a journal or at a conference. |
| 124 | Comparing Conventional Machine Learning and Large-Language Models for Human Stress Detection Using Social Media Posts | (Ramteke and Khandelwal, 2023) | It has not yet been published in a journal or at a conference. |
| 125 | A Machine Learning Enabled Approach for Mental and Physical Health Management Using OpenCV, NLP and IOT | (Rane, Khanke et al. 2024) | It has not yet been published in a journal or at a conference. |
| 126 | Transformer Models for Recognizing Abusive Language An investigation and review on Tweeteval and SOLID dataset | (Rawther & Titus, 2023) | It has not yet been published in a journal or at a conference. |
| 127 | Analyzing the Performance of Machine Learning and Deep Learning Models in Detecting Cyberbullying Comments | (Saim et al., 2023) | It has not yet been published in a journal or at a conference. |
| 128 | RAG-Based LLM Chatbot Using Llama-2 | (Vakayil et al., 2024) | It has not yet been published in a journal or at a conference. |
| 129 | AI-Enhanced Mental Health Diagnosis: Leveraging Transformers for Early Detection of Depression Tendency in Textual Data | (Verma et al., 2023) | It has not yet been published in a journal or at a conference. |
| 130 | Investigating Large Language Models’ Perception of Emotion Using Appraisal Theory | (Yongsatianchot et al., 2023) | It has not yet been published in a journal or at a conference. |
| 131 | Development of Serious Game Theory Framework in Virtual Reality for Alzheimer's Patients | (Zuo et al., 2024) | It has not yet been published in a journal or at a conference. |
| 132 | A Therapeutic Dialogue Agent for Polish Language | (Zygadlo, 2021) | It has not yet been published in a journal or at a conference. |

Table S4. List of studies excluded at the full-text screening stage.

\*: These articles do not contain verifiable references, including awards, dissertations, research projects etc.

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