| **Section and Topic** | **Item #** | **Checklist item** | **Reported (Yes/No)** | Comment |
| --- | --- | --- | --- | --- |
| **TITLE** | | |  |  |
| Title | 1 | Identify the report as a systematic review. | **Yes** | The report qualifies as a systematic review, as it comprehensively synthesizes evidence following a structured and pre-defined methodology. |
| **BACKGROUND** | | |  |  |
| Objectives | 2 | Provide an explicit statement of the main objective(s) or question(s) the review addresses. | Yes | The review clearly states its main objective or question, focusing on summarizing evidence to address a specific research query. |
| **METHODS** | | |  |  |
| Eligibility criteria | 3 | Specify the inclusion and exclusion criteria for the review. | Yes | Yes, the review clearly defines the inclusion and exclusion criteria to select relevant studies and exclude those not meeting the objectives |
| Information sources | 4 | Specify the information sources (e.g. databases, registers) used to identify studies and the date when each was last searched. Specify the information sources (e.g. databases, registers) used to identify studies and the date when each was last searched | Yes | Scopus database is used (mentioned), But duration is not mentioned. |
| Risk of bias | 5 | Specify the methods used to assess the risk of bias in the included studies. | No | The risk of bias was manually evaluated by two independent reviewers to ensure accuracy and reliability. Discrepancies were resolved through consensus or by involving two other reviewers. |
| Synthesis of results | 6 | Specify the methods used to present and synthesize results. | No | Here, we used pie charts, tables, and text-based narrative summaries. The pie charts are used to visualize the participation of various countries, areas of specialization, and year of publication. Tables are used for different machine learning methods and their feature extraction technique. Text summaries were used to describe key findings and highlight patterns across the included studies |
| **RESULTS** | | |  |  |
| Included studies | 7 | Give the total number of included studies and participants and summarise relevant characteristics of studies. | Yes | The review provides the total number of included studies and participants, along with a summary of their key characteristics. |
| Synthesis of results | 8 | Present results for main outcomes, preferably indicating the number of included studies and participants for each. If meta-analysis was done, report the summary estimate and confidence/credible interval. If comparing groups, indicate the direction of the effect (i.e. which group is favoured). | Yes | The complete description has been added in the manuscript. |
| **DISCUSSION** | | |  |  |
| Limitations of evidence | 9 | Provide a brief summary of the limitations of the evidence included in the review (e.g. study risk of bias, inconsistency and imprecision). | Yes | The review briefly highlights the limitations of the evidence, such as potential bias, inconsistencies, and lack of precision in the included studies. |
| Interpretation | 10 | Provide a general interpretation of the results and important implications. | Yes | It has been mentioned in the final manuscript. |
| **OTHER** | | |  |  |
| Funding | 11 | Specify the primary source of funding for the review. | Yes | There is no funding for this work. |
| Registration | 12 | Provide the register name and registration number. | No | Not applicable |

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