

Final Research Articles Included in this Review

Id	Title	Reference	SLR Score	Learning Methods	Engagement, Collaboration and Communication	Necessary Skills	Mandatory Resources	Lack of Standardized DL Definition	Data Use Self-Efficacy	Complexity in Promoting Value Oriented DL
1	Data Swagger: A Systemic Approach to Train, Motivate and Engage Data Savvy Employees	Abhari, K. et al. (2022)	7	Yes	Yes	No	Yes	No	Yes	Yes
2	A systematic review and meta-analysis of data use professional development interventions	Ansyari, M. et al. (2022)	10	Yes	Yes	Yes	Yes	No	No	Yes
3	Tracking the process of data use professional development interventions for instructional improvement: A systematic literature review	Ansyari, M.F. et al. (2020)	6	Yes	Yes	No	Yes	No	No	Yes
4	Organizational Enablers of Data-Driven Digital Transformation: A Case Study from Banking Industry	Arsal, R.E. et al. (2022)	7	No	Yes	No	Yes	No	No	Yes
5	Datafication in Educational Contexts. Between Subjectivation and Ethics; [Datificación en Contextos Educativos. Entre Subjetivación y Ética]	Barragán-Giraldo, D.F. et al. (2024)	6	Yes	Yes	Yes	No	No	Yes	No
6	Improving Data-Based Decision-Making in Early Childhood Services: A Systematic Review Informed by the Capability Opportunity and Motivation Model of Behavior	Beatson, R. et al. (2025)	6	No	Yes	Yes	Yes	No	No	No
7	Data cracker: Developing a visual game analytic tool for analyzing online gameplay	Ben, M. et al. (2011)	6	Yes	Yes	No	No	No	No	Yes
8	Investigating "Problem-Solving With Datasets" as an Implementation of Computational Thinking: A Literature Review	Berikan, B. and Ozdemir, S. (2020)	6	Yes	No	No	No	No	No	No
9	Trends in data literacy, 2018-2023: a review of the literature	Bowler, L. and Shaw, C. (2024)	6	Yes	No	Yes	No	Yes	No	No
10	Data citizenship: rethinking data Literacy in the age of disinformation, misinformation, and malinformation	Carmi, E. et al. (2020)	7	Yes	Yes	Yes	No	No	No	Yes
11	Developing the DALI Data Literacy Framework for critical citizenry	Castaneda, L. et al. (2024)	7	Yes	Yes	Yes	No	No	No	Yes
12	Fostering student engagement in online discussion through social learning analytics	Chen, B.D. et al. (2018)	6	No	Yes	No	Yes	No	No	No
13	Building data-driven dynamic capabilities to arrest knowledge hiding: A knowledge management perspective	Chen, Y. et al. (2022)	6	No	Yes	No	No	No	No	No
14	Data literacy assessments: a systematic literature review	Cui, Y. et al. (2023)	9	Yes	No	Yes	No	Yes	No	Yes
15	Information literacy for use of open data: trends and perspectives	Cunha, P. et al. (2024)	6	Yes	No	Yes	Yes	No	No	Yes
16	Constructionist approaches to critical data literacy: A review	Dangol, A. and Dasgupta, S. (2023)	7	No	No	No	Yes	No	No	No
17	The data coach chronicles: A systematic review of human support for making data-based decision-making a success	Decabooter, I. et al. (2024)	7	No	Yes	No	Yes	No	No	Yes
18	Building ICT skills for Employability: Piloting a virtual training model for the Caribbean School of Data	Defreitas, P. (2022)	7	Yes	Yes	No	Yes	No	No	No

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19	Data Literacy and Education: A Science Mapping Study	Demirtaş, Ç. (2024)	6	Yes	Yes	Yes	Yes	Yes	No	Yes
20	Creative data literacy: Bridging the gap between the data-haves and data-have nots	D'Ignazio, C. (2017)	6	Yes	Yes	Yes	No	No	Yes	No
21	Filling the gap in K-12 data literacy competence assessment: Design and initial validation of a questionnaire	Donate-Bebry, B. et al. (2025)	7	Yes	No	Yes	Yes	No	No	Yes
22	Three frameworks for data literacy	Downes, S. (2023)	9	Yes	No	No	No	Yes	No	No
23	Using colleague coaching to develop teacher data literacy	Edwards, F. et al. (2022)	7	No	Yes	No	Yes	No	Yes	Yes
24	The mediating effect of data literacy competence in the relationship between data governance and data-driven culture	Fattah, I.A. (2024)	6	Yes	Yes	Yes	Yes	Yes	No	Yes
25	Paper vs. practice: How legal and ethical frameworks influence public sector data professionals in the Netherlands	Fest, I. et al. (2022)	6	No	Yes	Yes	Yes	No	No	No
26	Data Literacy Training for K–12 Teachers: A Meta-Analysis of the Effects on Teacher Outcomes	Filderman, M.J. et al. (2021)	9	Yes	Yes	Yes	Yes	No	No	No
27	Some Key Challenges for Data Literacy	Frank, M. and Walker, J. (2016)	Mentioned	Yes	Yes	Yes	No	Yes	No	No
28	What shapes statistical and data literacy research in K-12 STEM education? A systematic review of metrics and instructional strategies	Friedrich, A. et al. (2024)	7	Yes	No	Yes	Yes	Yes	No	Yes
29	Promoting the use of open government data: Cases of training and engagement	Gascó-Hernández, M. et al. (2018)	6	Yes	Yes	Yes	Yes	No	No	Yes
30	An Exploration of the Definition of Data Literacy in the Academic and Public Domains	Ghodoosi, B. et al. (2023a)	6	Yes	Yes	No	No	Yes	No	Yes
31	A systematic literature review of data literacy education	Ghodoosi, B. et al. (2023b)	7	Yes	No	Yes	No	Yes	No	No
32	Introduction of data literacy in the undergraduate engineering curriculum	Giese, T.G. et al. (2020)	7	Yes	No	Yes	No	No	No	No
33	Balancing plurality and educational essence: Higher education between data-competent professionals and data self-empowered citizens	Hachmeister, N. et al. (2021)	6	Yes	No	Yes	No	No	No	Yes
34	The role of the arts in enhancing data literacy: A scoping review protocol	Hannigan, A. et al. (2023)	7	Yes	Yes	No	No	No	No	No
35	Research on the Path of Data Literacy Cultivation for College Students	Hao, L. et al. (2020)	6	Yes	No	No	No	No	No	No
36	Building data driven culture for digital competitiveness in construction industry: a theoretical exploration	Hashim, M. et al. (2025)	7	No	No	Yes	Yes	No	No	No

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37	Data value creation in agriculture: A review	Havva U. et al. (2024)	7	No	Yes	Yes	Yes	No	Yes	Yes
38	Enthusiastic and Grounded, Avoidant and Cautious: Understanding Public Receptivity to Data and Visualizations	He, H.A. et al. (2024)	7	No	Yes	No	No	No	No	No
39	Data literacy training and use for educational professionals.	Henderson, J. and Corry, M. (2020)	Mentioned	Yes	Yes	Yes	No	Yes	No	No
40	Evaluation of Data Literacy Frameworks and a Self-Data Curriculum for High School Students	Hernandez-Serrano, M. J. et al. (2024)	6	Yes	Yes	Yes	No	Yes	No	Yes
41	EmpoderaData: Data Literacy Assessment and Sustainable Development Goals Data Gaps.	Higgins, V. et al. (2019)	Mentioned	Yes	Yes	No	Yes	No	No	No
42	The data awareness framework as part of data literacies in K-12 education	Hoeper, L. and Schulte, C. (2023)	6	Yes	No	Yes	No	No	No	Yes
43	Prerequisites for data-based decision making in the classroom: Research evidence and practical illustrations	Hoogland, I. et al. (2016)	7	Yes	Yes	Yes	Yes	No	Yes	Yes
44	Big data meets sustainable marketing: A new integrated curriculum for hospitality education	Hornig, J.S. et al. (2024)	7	No	Yes	Yes	Yes	No	No	No
45	Putting learning back into learning analytics: actions for policy makers, researchers, and practitioners	Ifenthaler, D. et al. (2021)	7	Yes	No	Yes	Yes	No	No	Yes
46	Data Literacy: Understanding Teachers' Data Use in a Context of Accountability and Response to Intervention	Jacobs, J. et al. (2009)	6	Yes	No	Yes	Yes	No	Yes	Yes
47	Implementation of a collaborative data use model in a United States context	Jimerson, J.B. et al. (2021)	Mentioned	Yes	No	No	Yes	No	No	Yes
48	Data Literacy Framework for Thailand Government Officers	Jirakitpaibool, C. et al. (2023)	7	Yes	No	Yes	No	Yes	No	Yes
49	Data science roadmapping: An architectural framework for facilitating transformation towards a data-driven organization	Kayabay, K. et al. (2022)	8	No	Yes	Yes	Yes	No	Yes	No
50	Data literacy in flux: Perspectives of community college librarians on evolving educational demands and library capacities	Kim, J. et al. (2024)	6	Yes	Yes	Yes	Yes	Yes	No	No
51	Teacher data literacies practice' meets pedagogical documentation': A scoping review	Kim, M. S. and Yu, F. (2023)	6	Yes	Yes	Yes	Yes	No	No	No
52	Data literacy: What do educators learn and struggle with during a data use intervention?	Kippers, W. B. et al. (2018)	6	Yes	No	Yes	Yes	No	Yes	No
53	Are you ready? Tasks and roles for academic libraries in supporting Research 2.0	Koltay, T. (2016)	6	No	No	No	Yes	No	No	No
54	Data literacy for researchers and data librarians	Koltay, T. (2017a)	7	Yes	Yes	No	No	Yes	No	Yes

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55	Research 2.0 and Research Data Services in academic and research libraries: priority issues	Koltay, T. (2017b)	6	Yes	Yes	No	Yes	No	No	No
56	Capability Development to Generate Business Value Through Customer-centric Analytics in the Banking Industry: A Systematic Review	Kristiana, I. et al. (2023)	9	No	Yes	Yes	Yes	No	No	No
57	Data Literacy Assessment - Measuring Data Literacy Competencies to Leverage Data-Driven Organizations	Lara P. et al. (2024)	7	Yes	No	Yes	Yes	Yes	No	Yes
58	Dimensions of teachers' data literacy: A systematic review of literature from 1990 to 2021	Lee, J. et al. (2024a)	9	Yes	Yes	Yes	Yes	Yes	Yes	No
59	Data literacy of principals in K-12 school contexts: A systematic review	Lee, J. et al. (2024b)	7	No	Yes	Yes	Yes	Yes	Yes	No
60	Taking data feminism to school: A synthesis and review of pre-collegiate data science education projects	Lee, V.R. et al. (2022)	7	Yes	Yes	Yes	No	No	Yes	No
61	Gamification in statistics education: A literature review	Legaki, N.Z. and Hamari, J. (2020)	6	Yes	No	No	No	No	No	Yes
62	The Impact of different gamification types in the context of data literacy: An online experiment	Legaki, N.Z. et al. (2022)	6	Yes	Yes	Yes	No	No	No	No
63	Stakeholder Perspectives on Data-Driven Solutions to Address Cardiovascular Disease and Health Equity in New York City	Lindenfeld, Z. et al. (2023)	7	No	Yes	Yes	Yes	No	No	Yes
64	Digital capability, digital learning, and sustainable behaviour among university students in Taiwan: A comparison design of integrated mediation-moderation models	Liu, C.H. et al. (2023)	7	Yes	Yes	No	No	No	No	No
65	Information literacy and recent graduates: Motivation, self-efficacy, and perception of credit-based information literacy courses	Liu, Q. (2023)	6	Yes	Yes	Yes	Yes	Yes	No	No
66	Identifying patterns and recommendations of and for sustainable open data initiatives: A benchmarking-driven analysis of open government data initiatives among European countries	Lnenicka, M. et al. (2024)	6	Yes	Yes	Yes	No	No	No	No
67	Competency model for open data literacy in professional learning within the context of Open Government Data (OGD)	Loria-Solano, E. and Raffaghelli, J.E. (2021)	9	Yes	No	No	No	No	No	Yes
68	Exploring the factors influencing teachers' instructional data use with electronic data systems	Luo, J. et al. (2022)	7	Yes	Yes	No	Yes	No	No	Yes
69	Implementing Data Science and Big Data Analytics to Their Full Potential: Protocols for Gaining Useful Understanding and Promoting Data-Driven Innovation	M, A. et al. (2024)	7	No	Yes	No	No	No	No	No
70	Embracing Big Data in Complex Educational Systems: The Learning Analytics Imperative and the Policy Challenge.	Macfadyen, L.P. et al. (2014)	Mentioned	No	Yes	No	Yes	No	Yes	Yes
71	Towards a data-driven technology roadmap for the bank of the future: Exploring big data analytics to support technology roadmapping	Maja, M.M. and Letaba, P. (2022)	8	No	Yes	Yes	Yes	No	No	Yes
72	The complexity of data-based decision making: An introduction to the special issue	Mandinach, E. B. and Schildkamp, K. (2021)	8	No	Yes	Yes	Yes	No	Yes	Yes

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73	Navigating the landscape of data literacy: It is complex.	Mandinach, E.B. and Gummer, E.S. (2012)	Mentioned	Yes	Yes	Yes	Yes	Yes	Yes	Yes
74	Teachers learning how to use data: A synthesis of the issues and what is known	Mandinach, E.B. and Jimerson, J.B. (2016)	9	Yes	Yes	Yes	Yes	Yes	Yes	Yes
75	Misconceptions about data-based decision making in education: An exploration of the literature	Mandinach, E.B. and Schildkamp, K. (2021)	7	No	No	Yes	Yes	No	No	Yes
76	Critical Pedagogy as a Response to Datafication	Markham, A.N. (2019)	6	No	Yes	Yes	No	No	No	No
77	Taking Data Literacy to the Streets: Critical Pedagogy in the Public Sphere	Markham, A.N. (2020)	6	No	Yes	No	No	No	No	No
78	Globalizing data literacy: Unveiling methodologies and findings from the European Educability project (building the capacity of educators and librarians in information literacy)	Marzal, M.Á. et al. (2024)	7	Yes	Yes	Yes	Yes	Yes	No	No
79	Data informed learning: A next phase data literacy framework for higher education	Maybee, C. and Zilinski, L. (2015)	6	Yes	Yes	Yes	No	No	No	Yes
80	Developing data capability with non-profit organisations using participatory methods	McCosker, A. et al. (2022)	6	Yes	Yes	Yes	Yes	Yes	No	Yes
81	Tension in the data environment: How organisations can meet the challenge	Meadows, M, et al. (2022)	8	Yes	Yes	Yes	Yes	No	No	Yes
82	Teachers' data literacy for learning analytics: a central predictor for digital data use in upper secondary schools	Michos, K. et al. (2023)	6	No	Yes	Yes	Yes	No	No	No
83	Developing data literacy: Investigating the effects of a pre-service data use intervention	Miller-Bains, K.L. et al. (2022)	7	No	Yes	Yes	Yes	No	No	No
84	Towards digital economy through data literate workforce	Miloradov, M. et al. (2022)	6	Yes	No	Yes	No	Yes	No	Yes
85	A Systematic Review of the Benefits and Challenges of Data Analytics in Organizational Decision Making	Morales-Arevalo, J.C. and Rodriguez, C. (2025)	8	No	Yes	Yes	Yes	No	No	No
86	Engaging Students in Data Literacy: Lessons Learned from Data Intensive Classrooms	Munasinghe, T. and Svirsky, A. (2021)	7	Yes	Yes	No	No	No	No	No
87	Design practices in visualization driven data exploration for non-expert audiences	Natasha T. et al. (2025)	7	No	No	Yes	Yes	No	No	Yes
88	Enhancing environmental decision-making: a systematic review of data analytics applications in monitoring and management	Ncube, M.M. and Ngulube, P. (2024)	6	No	Yes	Yes	Yes	No	No	Yes
89	Teaching analytics, value and tools for teacher data literacy: a systematic and tripartite approach	Ndukwe, I.G. and Daniel, B.K. (2020)	7	Yes	Yes	Yes	Yes	Yes	Yes	Yes
90	The data subject and the myth of the ‘black box’ data communication and critical data literacy as a resistant practice to platform exploitation	Nguyen, D. and Beijnon, B. (2024)	6	Yes	Yes	Yes	Yes	No	Yes	No

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91	Insights from DataFest point to new opportunities for undergraduate statistics courses: Team collaborations, designing research questions, and data ethics	Noll, J. and Tackett, M. (2023)	7	No	Yes	Yes	No	No	No	Yes
92	Bibliographic coupling networks of global research on data literacy by documents, sources and authors	Nwagwu, W. E. (2024a)	6	Yes	Yes	Yes	Yes	No	No	No
93	Mapping the field of global research on data literacy: Key and emerging issues and the library connection	Nwagwu, W. E. (2024b)	6	Yes	Yes	Yes	Yes	No	No	Yes
94	From Algorithmic Management to Data-driven Labour Organising -A trade union approach to workplace datafication	Nyman, S. et al. (2024)	6	No	Yes	Yes	Yes	No	Yes	Yes
95	Exploring Bibliometric Perspectives on Data Culture in Scholarly Discourse	Olaleye, S.A. and Adusei, A.G. (2023)	6	No	Yes	No	No	No	No	Yes
96	Understanding data culture/s: Influences, activities, and initiatives	Oliver, G. et al. (2024)	7	Yes	Yes	Yes	Yes	Yes	No	No
97	The social utility of 'data literacy'	Pangrazio, L. and Sefton-Green, J. (2020)	6	Yes	No	No	No	No	No	No
98	Towards a school-based 'critical data education'	Pangrazio, L. and Selwyn, N. (2021)	8	Yes	No	No	No	No	No	Yes
99	Open data journalism: a domain mapping review	Papageorgiou, G. et al. (2023)	7	No	Yes	No	Yes	No	No	Yes
100	Towards an educational data literacy framework: enhancing the profiles of instructional designers and e-tutors of online and blended courses with new competences	Papamitsiou, Z. et al. (2021)	9	Yes	No	No	No	No	No	No
101	At School of Open Data: A Literature Review	Pellegrino, M. A. and Antelmi, A. (2023)	6	Yes	Yes	No	Yes	No	Yes	No
102	A Balanced Scorecard for Maximizing Data Performance	Pierce, E. (2022)	6	No	Yes	Yes	Yes	No	No	No
103	A strategic approach to information literacy: data literacy. A systematic review	Pinto, M. et al. (2023)	6	Yes	Yes	Yes	Yes	Yes	No	Yes
104	Incorporating data literacy into information literacy programs: Core competencies and contents	Prado, J.C. and Marzal, M.A. (2013)	7	Yes	No	No	No	No	No	No
105	Understanding science data literacy: a conceptual framework and assessment tool for college students majoring in STEM	Qiao, C. et al. (2024)	7	Yes	No	Yes	No	Yes	No	No
106	Developing a framework for educators' data literacy in the european context: proposal, implications and debate	Raffaghelli, J.E. (2019)	8	Yes	No	No	No	No	No	No
107	Is data literacy a catalyst of social justice? A response from nine data literacy initiatives in higher education	Raffaghelli, J.E. (2020)	9	Yes	Yes	Yes	No	No	No	Yes
108	Centering complexity in 'educators' data literacy' to support future practices in faculty development: a systematic review of the literature	Raffaghelli, J.E. and Stewart, B. (2020)	6	Yes	Yes	Yes	No	No	Yes	Yes

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109	How can the digital competences of pre-service teachers be developed? Examining a case study through the lens of DigComp and DigCompEdu	Reisoglu, I. and Cebi, A. (2020)	6	Yes	No	No	No	No	No	No
110	Exploring the enablers of data-driven business models: A mixed-methods approach	Reza D. et al. (2025)	6	No	Yes	Yes	Yes	No	No	Yes
111	Critical datafication literacy – a framework for educating about datafication	Sander, I. (2024)	7	Yes	Yes	Yes	No	Yes	No	No
112	Exploring data use practices around Europe: Identifying enablers and barriers	Schildkamp, K. et al. (2014)	6	Yes	Yes	Yes	Yes	No	Yes	No
113	How school leaders can build effective data teams: Five building block for a new wave of data-informed decision making.	Schildkamp, K. et al. (2019)	Mentioned	No	Yes	No	Yes	No	Yes	No
114	Teaching for statistical and data literacy in K-12 STEM education: a systematic review on teacher variables, teacher education, and impacts on classroom practice	Schreiter, S. et al. (2024)	7	No	Yes	No	Yes	No	No	Yes
115	Barriers and facilitators to data-based decision making in Australian early childhood education and care: A qualitative study	Shauna S. et al. (2025)	7	No	Yes	Yes	Yes	No	Yes	No
116	Exploration of Data Literacy Research Using a Network of Cluster Mapping Approach	Sheriff, N. and Sevukan, R. (2023)	7	Yes	Yes	Yes	Yes	Yes	No	No
117	Searching for critical dimensions in data literacy	Spiranec, S. et al. (2019)	8	Yes	No	Yes	No	No	No	No
118	Designing a conversational agent for supporting data exploration in citizen science	Stein, C. et al. (2024)	7	Yes	Yes	Yes	Yes	No	Yes	Yes
119	Learning analytics in higher education - Challenges and policies: A review of eight learning analytics policies	Tsai, Y.S. and Gasevic, D. (2017)	7	Yes	Yes	Yes	Yes	No	No	Yes
120	Learning analytics in European higher education—Trends and barriers	Tsai, Y.S. et al. (2020)	6	No	Yes	Yes	Yes	No	No	Yes
121	Connecting the dots: An exploratory study on learning analytics adoption factors, experience, and priorities	Tsai, Y.S. et al. (2021)	6	No	Yes	Yes	Yes	No	Yes	Yes
122	Data literacy and education: Introduction and the challenges for our field	Van Audenhove, L. et al. (2020)	6	Yes	Yes	Yes	No	No	No	No
123	Beyond Numeracy, a Data Literacy Topical Scoping Review (2011–2023)	Vermeire, L. et al. (2025)	6	Yes	Yes	Yes	No	Yes	No	No
124	Exploring different notions of literacy: A literature review analysis of literacy research related to Artificial Intelligence and Big Data application	Wang, Z. (2020)	6	No	No	No	No	Yes	No	No
125	Strengthening Data Literacy in K-12 Education: A Scoping Review	Witte, V. et al. (2025)	6	Yes	Yes	Yes	Yes	Yes	No	No
126	Does learning how to use data mean being motivated to use it? Effects of a data use intervention on data literacy and motivational beliefs of pre-service teachers	Wurster, S. et al. (2023)	7	No	No	Yes	No	No	No	Yes

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127	Visual Analysis of Precision Teaching Research Based on VOS Viewer in Data-Driven Perspective	Xin, W. and Bin, W. (2023)	6	Yes	No	Yes	Yes	No	No	Yes
128	Knowledge mapping of data literacy: A bibliometric study using visual analysis	Yan, C. et al. (2024)	6	Yes	Yes	Yes	No	Yes	Yes	No
129	What do digital inclusion and data literacy mean today?	Yates, S.J. and Carmi, E. (2020)	9	Yes	No	Yes	No	Yes	No	No
130	Defining Data Literacy Communities by Their Objectives: A Text Mining Analysis	Yousef, A.M. et al. (2021)	6	No	No	No	No	Yes	No	No
131	Civic Utilisation based on meta-ethnography willingness of government to open data Modeling of Influential factors	Yuqi, Y.A.N.G. et al. (2024)	6	No	Yes	Yes	Yes	No	No	No