

Study on Contribution of Cloud Computing for Development of E-Learning

Shrishyam Mishra¹ and Rohit Thakur²

Assistant Professor, BSC IT, Suman Education Society's LN College, Borivali East, Mumbai, India¹

Student, BSC IT, Suman Education Society's LN College, Borivali East, Mumbai, India²

Abstract: *Online communication platforms are used to facilitate e-learning, a type of virtualized computing, and remote learning as a tool in the teaching-learning process. In the last two years, e-learning platforms have grown significantly. When the learning process is digitized, data mining for education information processing leverages information generated from internet databases to improve the educational learning paradigm for educational purposes. A potential platform for enabling e-learning systems is cloud computing. By offering a scalable solution for long-term transformation of computer resource use, it may be automatically changed. When engaging with large e-learning datasets, it is also easier to employ data mining techniques in a distributed setting. The research provides a summary of the current situation of cloud computing*

Keywords: E-Learning, Cloud Computing, Virtual Learning, SaaS, PaaS, IaaS.

REFERENCES

- [1]. Allam, T. (2021). Cloud Computing and its role in the Information Technology. IAIC Transactions on Sustainable Digital Innovation (ITSDI), 1, 108-115.
- [2]. Adowa, H., Al-Samurai, H., & Fauzia, W. M. (2019). Educational data mining and learning analytics for 21st century higher education: A review and synthesis. Telematics and Informatics, 37, 13-49.
- [3]. Ali, A., & Aleurone, A. (2021). An Investigation of Cloud Computing and E Learning for Educational Advancement. IJCSNS, 21(11), 216-222.
- [4]. Ali, A., Manzoor, D., Loraine, A., The implementation of Government Cloud for the Services under E-Governance in the KSA. Science International Journal, 2021. 3(3): 249- 257.
- [5]. Ali, A., Cloud computing adoption at higher educational institutions in the KSA for Sustainable Development. International Journal of Advanced Computer Science and Applications, 2020. 11(3):413-419.
- [6]. Abkhazian, A., & Khan, R. (2021). The Use of M-Learning: A Perspective of Learners' Perceptions on M-Blackboard Learn.
- [7]. Azam, M. G. (2019). Application of cloud computing in library management: innovation, opportunities and challenges. Int. J. Multidisc., 4(1), 2-11.
- [8]. Bhardwaj, A., & Goundar, S. (2019). A framework to define the relationship between cyber security and cloud performance. Computer Fraud & Security, 2019(2), 12-19.
- [9]. Blau, I., & Caspi, A. (2009). What type of collaboration helps? Psychological ownership, perceived learning and outcome quality of collaboration using Google Docs. Paper presented at the Proceedings of the Chais conference on instructional technologies research.
- [10]. [10] Bora, U. J., & Ahmed, M. (2013). E-learning using cloud computing. International Journal of Science and Modern Engineering, 1(2), 9-12.
- [11]. [11] Clark, R. C., & Mayer, R. E. (2016). E-learning and the science of instruction: Proven guidelines for consumers and designers of multimedia learning: John Wiley & sons.
- [12]. [12] Fernandez, A., Peralta, D., Herrera, F., & Benítez, J. (2012). An overview of e-learning in cloud computing. Paper presented at the Workshop on Learning Technology for Education in Cloud (LTEC'12).
- [13]. Galić, S., Ludic, Z., & Stanovich, T. (2020). E learning in maritime affairs. Journal of Naval Architecture and Marine Engineering, 17(1), 38-50.
- [14]. Haji, L. M., Zebedee, S., Ahmed, O. M., Sallow, A. B., Jacksy, K., & Zebra, R. R.

- [15]. (2020). Dynamic resource allocation for distributed systems and cloud computing. *TEST Engineering & Management*, 83, 22417-22426.
- [16]. Hashem, I. A. T., Yaqoob, I., Anuar, N. B., Mokhtar, S., Gani, A., & Khan, S. U. (2015). The rise of “big data” on cloud computing: Review and open research issues. *Information systems*, 47, 98-115.
- [17]. Kasara, G., & Bwalya, K. J. (2021). Investigating the E-Learning Challenges Faced by Students during COVID-19 in Namibia. *International Journal of Higher Education*, 10(1), 308-318.
- [18]. Kausar, S., Hauhau, X., Hussain, I., Wenhao, Z., & Zahid, M. (2018). Integration of data mining clustering approach in the personalized E learning system. *IEEE Access*, 6, 72724-72734.
- [19]. Khan, R. M. I., Ali, A., Aleurone, A., Kumar, T., & Shahbaz, M. (2021). An Investigation of the Educational Challenges During COVID-19: A Case Study of Saudi Students' Experience. *An Investigation of the Educational Challenges During COVID-19: A Case Study of Saudi Students' Experience*, 11(1), 353-363.
- [20]. Khan, I., Ibrahim, A. H., Kassim, A., & Khan, R. M. I. (2020). Exploring The EFI Learners' Attitudes Towards the Integration of Active Reading Software in Learning Reading Comprehension at Tertiary Level. *MIER Journal of Educational Studies Trends & Practices*, 248-266.
- [21]. Khan, R. M. I., Kumar, T., Kupriyanov, T., & Huapango, V. (2021). The Phenomenon of Arabic-English Translation of Foreign Language Classes During the Pandemic. *Ijaz Arabi Journal of Arabic Learning*, 4(3).
- [22]. Khan, R. M. I., Ramzan, N., Farooqi, S., Shahbaz, M., & Khan, M. (2021). Learners' Perceptions on WhatsApp Integration as a Learning Tool to Develop EFL Spoken Vocabulary. *International Journal of Language Education*, 5(2), 1-14.
- [23]. Khan, R. M. I., Ramzan, N. R. M., Shahbaz, M., & Ibrahim, A. H. (2018). EFL Instructors' Perceptions on the Integration and Implementation of MALL in EFL Classes. *International Journal of Language Education and Applied Linguistics*, 39-50.
- [24]. Khan, R. M. I., Shahbaz, M., Kumar, T., & Khan, I. (2020). Investigating Reading Challenges Faced by EFL Learners at Elementary Level. *Register Journal*, 13(2), 277- 292.