

- [15] Mohammed, S. H.; Al-augby, S. (2020): LSA & LDA Topic Modeling Classification: Comparison study on E-books. Indonesian Journal of Electrical Engineering and Computer Science, 19(1).
- [16] Mohammad, Saif & Turney, Peter. (2013). NRC emotion lexicon. DOI: 10.4224/21270984.
- [17] Mika V. Mantyla; Claes, M.; Farooq, U. (2018): Measuring LDA topic stability from clusters of replicated runs. In Proceedings of the 12th ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM '18), Association for Computing Machinery, New York, NY, USA, Article 49, pp. 1–4.
- [18] Onan, A.; Korukoğlu, S.; Bulut, H. (2016): LDA-based Topic Modelling in Text Sentiment Classification: An Empirical Analysis. International Journal of Computational Linguistics and Applications, 7(1), pp. 101–119.
- [19] Parveen, N.; Santhi, M.V.B.T.; Burra, L. R.; Pellakuri, V.; Pellakuri, H. (2021): Women's e-commerce clothing sentiment analysis by probabilistic model LDA using R-SPARK. Materials Today: Proceedings 2021.
- [20] Rania, A.; Yeap Tet Hin; Morad, B. (2020): Using Topic Modeling Methods for Short-Text Data: A Comparative Analysis. Frontiers in Artificial Intelligence, vol. 3, pp. 42.
- [21] Ray, D. (2017): Lexicon Based Sentiment Analysis of Twitter Data. International Journal for Research in Applied Science & Engineering Technology (IJRASET), 5 (X).
- [22] Sokolova, M.; Huang, K.; Matwin, S.; Ramisch, J.; Sazonova, V.; Black, R.; Orwa, C.; Ochieng, S.; Sambuli, N. (2016): Topic Modelling and Event Identification from Twitter Textual Data. In Social and Information Networks.
- [23] Shah, C. S.; Sebastian, M. P. (2020): Sentiment Analysis and Topic Modelling of Indian Government's Twitter Handle #IndiaFightsCorona. In: Sharma S.K., Dwivedi Y. K., Metri B., Rana N.P. (eds) Re-imagining Diffusion and Adoption of Information Technology and Systems: A Continuing Conversation. TDIT 2020. IFIP Advances in Information and Communication Technology, vol. 618. Springer, Cham.
- [24] Wisnu, G. R. G.; Muttaqi, A. R.; Santoso, A. B.; Putra, P. K.; Budi, I. (2020): Sentiment Analysis and Topic Modelling of 2018 Central Java gubernatorial Election using Twitter Data. 2020 International Workshop on Big Data and Information Security (IW BIS), Depok, Indonesia, pp. 35-40. DOI: 10.1109/IWBIS50925.2020.9255583.
- [25] Yang, S.; Zhang, H. (2018): Text Mining of Twitter Data Using a Latent Dirichlet Allocation Topic Model and Sentiment Analysis. International Journal of Computer and Information Engineering, 12(7).

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