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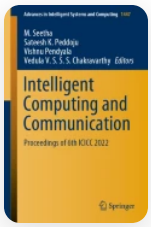

Intelligent Computing and Communication

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Abstract

Advanced displaying provides online sentiment digital advertisers with information into their sales. Sales are critical in increasing the business when sentimental digital marketing methods are used. Sentiment digital marketing is one approach for providing information about their company, gadgets, and products. Utilizing web-based advertising metrics like aggregation are designed to save you time when you need the most recent information for a show or report you're dealing with against a cutoff time. Business members can use our unique time span to expand their business. The current system has a high error rate, a poor business visualization strategy, and a high time complexity. AI technology has been employed in a variety of ways to improve the reach of target audiences in online targeted digital advertising. Recent study shows that improved computational force promotes capacity-focused granular crowds. This study explores and identifies several AI technologies used to improve specific web-based advertising. These three categories widely recognize and divide the word-of-mouth, client-driven, and content-driven promotion via radio, television, and newspapers methodologies that compose AI-based Internet designed promoting strategies. The proposed AI computation accurately predicts information at 94.50% using linear regression and neural network methods.

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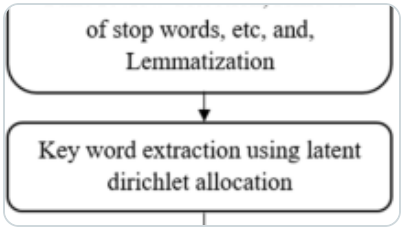

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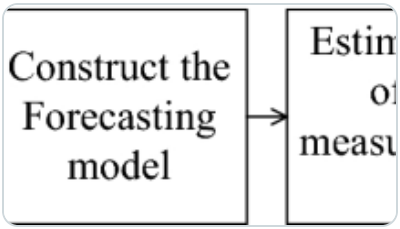

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References

1. Weerahandi H, Hochman KA, Simon E, Blaum C, Chodosh J, Duan E, Garry K, Kahan T, Karmen-Tuohy SL, Karpel HC et al (2021) Post-discharge health status and symptoms in patients with severe COVID-19. J Gen Intern Med 36(3):738–745

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2. Choia J-A, Limb K (2020) Identifying machine learning techniques for classification of target advertising. The Korean Institute of Communications and Information Sciences (KICS), Elsevier B.V. CC BY-NC-ND license; ICT Express 6:175–180. Available online at http://creativecommons.org/licenses/by-nc-nd/4.0/, https://doi.org/10.1016/j.icte.2020.04.012, www.sciencedirect.com

3. Saura JR (2020) Using data sciences in sentiment digital marketing: framework, methods, and performance metrics. Department of Business Economics, Rey Juan Carlos University, Madrid, Spain, © 2020. Received 30 Mar 2020. Accepted 3 Aug 2020. Available online 15 Aug 2020; J Innov Knowl. Elsevier Espana, S.L.U. CC BY-NC-ND license. http://creativecommons.org/licenses/by-nc-nd/4.0/

4. Aladwani AM, Dwivedi YK (2018) Towards a theory of socio citizenry: quality anticipation, trust configuration, and approved adaptation of governmental social media. Int J Inf Manage 43:261–272

Article Google Scholar

5. Alrifai R (2017) A data mining approach to evaluate stock-picking strategies. J Comput Sci Coll 32(5):148–155

Google Scholar

6. Archak N, Ghose A, Ipeirotis PG (2011) Deriving the pricing power of product features by mining consumer reviews. Manage Sci 57(8):1485–1509

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7. Arias M, Arratia A, Xuriguera R (2014) Forecasting with twitter data. ACM Trans Intell Syst Technol (TIST) 5(1):1–24

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8. Avery J, Steenburgh TJ, Deighton J, Caravella M (2012) Adding bricks to clicks: predicting the patterns of cross-channel elasticities over time. J Mark 76(3):96–111

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9. Ballestar MT, Grau-Carles P, Sainz J (2018) Customer segmentation in e-commerce: applications to the cashback business model. J Bus Res 88:407–414

Article Google Scholar

10. Choi JA, Lewis R (2017) Culture and the star-power strategy: comparing American and Korean response to celebrity-endorsed advertising. J Glob Mark 30(1):3–11

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11. Jamshidi M, Lalbakhsh A, Talla J, Peroutka Z, Hadjilooei F, Lalbakhsh P, Jamshidi M, La Spada L, Mirmozafari M, Dehghani M et al (2020) Artificial intelligence and COVID-19: deep learning approaches for diagnosis and treatment. IEEE Access 8:109581–109595

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12. Chen Y, Kapralov M, Canny J, Pavlov DY (2009) Factor modeling for advertisement targeting. In: Advances in neural information processing systems, pp 324–332

Google Scholar

13. Capatina A, Kachour M, Lichy J, Micu A, Micu A, Codignola F (2020) Matching the future capabilities of an artificial intelligence-based software for social media marketing with potential users' expectations. Technol Forecast Soc Change 151:119794

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14. Lo SL, Cornforth D, Chiong R (2015) Effects of training datasets on both the extreme learning machine and support vector machine for target audience identification on twitter. In: Proceedings of ELM-2014, vol 1. Springer, Cham, pp 417–434

Google Scholar

15. Lo SL, Chiong R, Cornforth D (2015) Using support vector machine ensembles for target audience classification on Twitter. PLoS One 10(4)

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16. Li H, Zhang D, Hu J, Zeng H, Chen Z (2007) Finding keyword from online broadcasting content for targeted advertising. In: Proceedings of the 1st international workshop on data mining and audience intelligence for advertising, pp 55–62

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17. Ta A (2015) Factorization machines with follow-the-regularized-leader for CTR prediction in display advertising. In: Proceedings of 2015 IEEE international conference on big data (big data), IEEE, pp 2889–2891

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