

REFERENCES

- Arora, M., & Kansal, V. (2019). Character level embedding with deep convolutional neural network for text normalization of unstructured data for Twitter sentiment analysis. *Social Network Analysis and Mining*, 9(1), 12. <https://doi.org/10.1007/s13278-019-0557-y>
- Aytaç, E. (2020). Unsupervised learning approach in defining the similarity of catchments: Hydrological response unit based k-means clustering, a demonstration on Western Black Sea Region of Turkey. *International Soil and Water Conservation Research*, 8(3), 321–331. <https://doi.org/10.1016/j.iswcr.2020.05.002>
- Banerjee, P., Jana, C., Saha, J., & Chowdhury, C. (2024). An autoencoder based unsupervised clustering approach to analyze the effect of E-learning on the mental health of Indian students during the Covid-19 pandemic. *Multimedia Tools and Applications*. <https://doi.org/10.1007/s11042-024-19983-2>
- Benrouba, F., & Boudour, R. (2022). *Emotional Sentiment Analysis of Social Media content for Mental Health Safety*. In Review. <https://doi.org/10.21203/rs.3.rs-2170906/v1>
- Braghieri, L., Levy, R., & Makarin, A. (2022). Social Media and Mental Health. *American Economic Review*, 112(11), 3660–3693. <https://doi.org/10.1257/aer.20211218>
- Chapman, P. (2000). *CRISP-DM 1.0: Step-by-step data mining guide*. <https://api.semanticscholar.org/CorpusID:59777418>
- Cui, M. (2020). *Introduction to the K-Means Clustering Algorithm Based on the Elbow Method. 1*. <https://doi.org/10.23977/accaf.2020.010102>

- Curiskis, S. A., Drake, B., Osborn, T. R., & Kennedy, P. J. (2020). An evaluation of document clustering and topic modelling in two online social networks: Twitter and Reddit. *Information Processing & Management*, 57(2), 102034. <https://doi.org/10.1016/j.ipm.2019.04.002>
- Dåderman, A., & Rosander, S. (2018). *Evaluating Frameworks for Implementing Machine Learning in Signal Processing*.
- Das, A. K., Dutt, S., & Chandramouli, S. (2019). *Machine Learning*. Pearson India Education Services Pvt. Ltd.
- DeMartini, J., Patel, G., & Fancher, T. L. (2019). Generalized Anxiety Disorder. *Annals of Internal Medicine*, 170(7), ITC49. <https://doi.org/10.7326/AITC201904020>
- Ezugwu, A. E., Ikotun, A. M., Oyelade, O. O., Abualigah, L., Agushaka, J. O., Eke, C. I., & Akinyelu, A. A. (2022). A comprehensive survey of clustering algorithms: State-of-the-art machine learning applications, taxonomy, challenges, and future research prospects. *Engineering Applications of Artificial Intelligence*, 110, 104743. <https://doi.org/10.1016/j.engappai.2022.104743>
- Fusar-Poli, P., Salazar De Pablo, G., De Micheli, A., Nieman, D. H., Correll, C. U., Kessing, L. V., Pfennig, A., Bechdolf, A., Borgwardt, S., Arango, C., & Van Amelsvoort, T. (2020). What is good mental health? A scoping review. *European Neuropsychopharmacology*, 31, 33–46. <https://doi.org/10.1016/j.euroneuro.2019.12.105>
- Ghafari, M., Nadi, T., Bahadivand-Chegini, S., & Doosti-Irani, A. (2022). Global prevalence of unmet need for mental health care among adolescents: A

- systematic review and meta-analysis. *Archives of Psychiatric Nursing*, 36, 1–6. <https://doi.org/10.1016/j.apnu.2021.10.008>
- Indurkha, N., & Damerau, F. J. (2010). *Handbook of Natural Language Processing* (2nd ed.). Chapman & Hall/CRC.
- Iparraguirre-Villanueva, O., Guevara-Ponce, V., Sierra-Linan, F., Beltozar-Clemente, S., & Cabanillas-Carbonell, M. (2022). Sentiment Analysis of Tweets using Unsupervised Learning Techniques and the K-Means Algorithm. *International Journal of Advanced Computer Science and Applications*, 13(6). <https://doi.org/10.14569/IJACSA.2022.0130669>
- Johnson, S. J., Murty, M. R., & Navakanth, I. (2023). A detailed review on word embedding techniques with emphasis on word2vec. *Multimedia Tools and Applications*, 83(13), 37979–38007. <https://doi.org/10.1007/s11042-023-17007-z>
- Khurana, D., Koli, A., Khatter, K., & Singh, S. (2023). Natural language processing: State of the art, current trends and challenges. *Multimedia Tools and Applications*, 82(3), 3713–3744. <https://doi.org/10.1007/s11042-022-13428-4>
- Kim, S., Cha, J., Kim, D., & Park, E. (2023). Understanding Mental Health Issues in Different Subdomains of Social Networking Services: Computational Analysis of Text-Based Reddit Posts. *Journal of Medical Internet Research*, 25, e49074. <https://doi.org/10.2196/49074>
- LeMoult, J., & Gotlib, I. H. (2019). Depression: A cognitive perspective. *Clinical Psychology Review*, 69, 51–66. <https://doi.org/10.1016/j.cpr.2018.06.008>

- Lipisha Chaudhary & Ishika Prasad. (2020). *Descriptive Analysis of Suicide Ideation on Twitter*. Unpublished.
<https://doi.org/10.13140/RG.2.2.36595.27685>
- Liu, Y. (2022). Analysis and Prediction of College Students' Mental Health Based on K-means Clustering Algorithm. *Applied Mathematics and Nonlinear Sciences*, 7(1), 501–512. <https://doi.org/10.2478/amns.2021.1.00099>
- Luo, M., & Hancock, J. T. (2020). Self-disclosure and social media: Motivations, mechanisms and psychological well-being. *Current Opinion in Psychology*, 31, 110–115. <https://doi.org/10.1016/j.copsyc.2019.08.019>
- Murphy, K. P. (2022). *Probabilistic machine learning: An introduction*. The MIT Press.
- Nandwani, P., & Verma, R. (2021). A review on sentiment analysis and emotion detection from text. *Social Network Analysis and Mining*, 11(1), 81. <https://doi.org/10.1007/s13278-021-00776-6>
- Oprea, S.-V., & Bâra, A. (2024). Assessing the Dual Impact of the Social Media Platforms on Psychological Well-being: A Multiple-Option Descriptive-Predictive Framework. *Computational Economics*.
<https://doi.org/10.1007/s10614-024-10717-y>
- Page, M. J., McKenzie, J. E., Bossuyt, P. M., Boutron, I., Hoffmann, T. C., Mulrow, C. D., Shamseer, L., Tetzlaff, J. M., Akl, E. A., Brennan, S. E., Chou, R., Glanville, J., Grimshaw, J. M., Hróbjartsson, A., Lalu, M. M., Li, T., Loder, E. W., Mayo-Wilson, E., McDonald, S., ... Moher, D. (2021). The PRISMA 2020 statement: An updated guideline for reporting systematic reviews. *BMJ*, n71. <https://doi.org/10.1136/bmj.n71>

- Plotnikova, V., Dumas, M., & Milani, F. P. (2022). Applying the CRISP-DM data mining process in the financial services industry: Elicitation of adaptation requirements. *Data & Knowledge Engineering*, 139, 102013. <https://doi.org/10.1016/j.datak.2022.102013>
- Popoff, E., Besada, M., Jansen, J. P., Cope, S., & Kanters, S. (2020). Aligning text mining and machine learning algorithms with best practices for study selection in systematic literature reviews. *Systematic Reviews*, 9(1). <https://doi.org/10.1186/s13643-020-01520-5>
- Rao, V. K., Valdez, D., Muralidharan, R., Agley, J., Eddens, K. S., Dendukuri, A., Panth, V., & Parker, M. A. (2024). Digital Epidemiology of Prescription Drug References on X (Formerly Twitter): Neural Network Topic Modeling and Sentiment Analysis. *Journal of Medical Internet Research*, 26, e57885. <https://doi.org/10.2196/57885>
- Rodriguez, M. Z., Comin, C. H., Casanova, D., Bruno, O. M., Amancio, D. R., Costa, L. D. F., & Rodrigues, F. A. (2019). Clustering algorithms: A comparative approach. *PLOS ONE*, 14(1), e0210236. <https://doi.org/10.1371/journal.pone.0210236>
- Saifullah, S., Dreżewski, R., Dwiyanto, F. A., Aribowo, A. S., & Fauziah, Y. (2023). Sentiment Analysis Using Machine Learning Approach Based on Feature Extraction for Anxiety Detection. In J. Mikyška, C. De Mulatier, M. Paszynski, V. V. Krzhizhanovskaya, J. J. Dongarra, & P. M. A. Sloat (Eds.), *Computational Science – ICCS 2023* (Vol. 14074, pp. 365–372). Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-36021-3_38
- Stylianou, T., & Ntelas, K. (2023). Impact of COVID-19 Pandemic on Mental Health and Socioeconomic Aspects in Greece. *International Journal of*

- Environmental Research and Public Health*, 20(3), 1843.
<https://doi.org/10.3390/ijerph20031843>
- Tabassum, A., & Patil, D. R. R. (2020). *A Survey on Text Pre-Processing & Feature Extraction Techniques in Natural Language Processing*.
<https://api.semanticscholar.org/CorpusID:235211496>
- Wahdi, A. E., Setyawan, A., Putri, Y. A., & Wilopo, S. A. (2022). *Indonesia – National Adolescent Mental Health Survey (I-NAMHS) Report* (Center for Reproductive Health, University of Queensland, & Johns Hopkins Bloomberg School of Public Health.). Universitas Gadjah Mada.
- Wang, T., Lu, K., Chow, K. P., & Zhu, Q. (2020). COVID-19 Sensing: Negative Sentiment Analysis on Social Media in China via BERT Model. *IEEE Access*, 8, 138162–138169.
<https://doi.org/10.1109/ACCESS.2020.3012595>
- We Are Social & Meltwater. (2024). *Digital 2024 Indonesia*.
<https://datareportal.com/reports/digital-2024-indonesia>
- Wen, T. Y., & Mohd Aris, S. A. (2022). Hybrid Approach of EEG Stress Level Classification Using K-Means Clustering and Support Vector Machine. *IEEE Access*, 10, 18370–18379.
<https://doi.org/10.1109/ACCESS.2022.3148380>
- WHO (Ed.). (1994). *Lexicon of psychiatric and mental health terms* (2. ed). World Health Organization.
- Wu, J. (2012). *Advances in K-means Clustering: A Data Mining Thinking*. Springer Berlin Heidelberg. <https://doi.org/10.1007/978-3-642-29807-3>
- Zhou, T. H., Hu, G. L., & Wang, L. (2019). Psychological Disorder Identifying Method Based on Emotion Perception over Social Networks. *International*

Journal of Environmental Research and Public Health, 16(6), 953.
<https://doi.org/10.3390/ijerph16060953>