

Daftar Pustaka

- [1] B. Liu, "Sentiment Analysis and Opinion Mining".
- [2] B. Csanády, L. Muzsai, P. Vedres, Z. Nádasdy, dan A. Lukács, "LlamBERT: Large-scale low-cost data annotation in NLP," 23 Maret 2024, *arXiv*: arXiv:2403.15938. doi: 10.48550/arXiv.2403.15938.
- [3] P. S. Ghatora, S. E. Hosseini, S. Pervez, M. J. Iqbal, dan N. Shaukat, "Sentiment Analysis of Product Reviews Using Machine Learning and Pre-Trained LLM," *BDCC*, vol. 8, no. 12, hlm. 199, Des 2024, doi: 10.3390/bdcc8120199.
- [4] S. A. Salloum, R. Alfaisal, A. Basiouni, K. Shaalan, dan A. Salloum, "Effectiveness of Logistic Regression for Sentiment Analysis of Tweets About the Metaverse," dalam *Breaking Barriers with Generative Intelligence. Using GI to Improve Human Education and Well-Being*, vol. 2162, A. Basiouni dan C. Frasson, Ed., dalam Communications in Computer and Information Science, vol. 2162. , Cham: Springer Nature Switzerland, 2024, hlm. 32–41. doi: 10.1007/978-3-031-65996-6_3.
- [5] R. Patil, S. Boit, V. Gudivada, dan J. Nandigam, "A Survey of Text Representation and Embedding Techniques in NLP," *IEEE Access*, vol. 11, hlm. 36120–36146, 2023, doi: 10.1109/ACCESS.2023.3266377.
- [6] "New *embedding* models and API updates | OpenAI." Diakses: 31 Maret 2025. [Daring]. Tersedia pada: <https://openai.com/index/new-embedding-models-and-api-updates/>
- [7] K. Kheiri dan H. Karimi, "SentimentGPT: Exploiting GPT for Advanced Sentiment Analysis and its Departure from Current Machine Learning," 23 Juli 2023, *arXiv*: arXiv:2307.10234. doi: 10.48550/arXiv.2307.10234.
- [8] "Vector *embeddings* - OpenAI API." Diakses: 21 Maret 2025. [Daring]. Tersedia pada: <https://platform.openai.com>
- [9] Nikhil Sanjay Suryawanshi, "Sentiment analysis with machine learning and deep learning: A survey of techniques and applications," *Int. J. Sci. Res. Arch.*, vol. 12, no. 2, hlm. 005–015, Jul 2024, doi: 10.30574/ijrsra.2024.12.2.1205.
- [10] B. Pang dan L. Lee, "Seeing stars: exploiting class relationships for sentiment categorization with respect to rating scales," dalam *Proceedings of the 43rd Annual Meeting on Association for Computational Linguistics - ACL '05*, Ann Arbor, Michigan: Association for Computational Linguistics, 2005, hlm. 115–124. doi: 10.3115/1219840.1219855.
- [11] R. Huang, Q. Chen, J. Tang, dan J. Song, "The Influence of Word Embeddings on the Performance of Sentiment Classification," *IJCIT*, vol. 4, no. 1, hlm. 1, Okt 2023, doi: 10.56028/ijcit.1.4.1.2023.
- [12] Y. Jin dan A. Zhao, "Bert-based graph unlinked *embedding* for sentiment analysis," *Complex Intell. Syst.*, vol. 10, no. 2, hlm. 2627–2638, Apr 2024, doi: 10.1007/s40747-023-01289-9.
- [13] A. Deniz, M. Angin, dan P. Angin, "Sentiment and Context-refined Word Embeddings for Sentiment Analysis," dalam *2021 IEEE International Conference on Systems, Man, and Cybernetics (SMC)*, Melbourne, Australia: IEEE, Okt 2021, hlm. 927–932. doi: 10.1109/SMC52423.2021.9659189.
- [14] M. Zulqarnain, R. Ghazali, M. Aamir, dan Y. M. M. Hassim, "An efficient two-state GRU based on feature attention mechanism for sentiment analysis," *Multimed Tools Appl*, vol. 83, no. 1, hlm. 3085–3110, Jan 2024, doi: 10.1007/s11042-022-13339-4.
- [15] I. N. Khasanah, "Sentiment Classification Using fastText Embedding and Deep Learning Model," *Procedia Computer Science*, vol. 189, hlm. 343–350, 2021, doi: 10.1016/j.procs.2021.05.103.
- [16] F. Giglietto, "Evaluating Embedding Models for Clustering Italian Political News: A Comparative Study of Text-Embedding-3-Large and UmBERTo," 20 Agustus 2024. doi: 10.31219/osf.io/2j9ed.
- [17] Z. Huang, Y. Long, K. Peng, dan S. Tong, "An Embedding-Based Semantic Analysis Approach: A Preliminary Study on Redundancy Detection in Psychological Concepts Operationalized by Scales," *J. Intell.*, vol. 13, no. 1, hlm. 11, Jan 2025, doi: 10.3390/jintelligence13010011.
- [18] I. Keraghel, S. Morbieu, dan M. Nadif, "Beyond Words: A Comparative Analysis of LLM Embeddings for Effective Clustering," dalam *Advances in Intelligent Data Analysis XXII*, vol. 14641, I. Miliou, N. Piatkowski, dan P. Papapetrou, Ed., dalam Lecture Notes in Computer Science, vol. 14641. , Cham: Springer Nature Switzerland, 2024, hlm. 205–216. doi: 10.1007/978-3-031-58547-0_17.
- [19] N. B. Korade, M. B. Salunke, A. A. Bhosle, P. B. Kumbharkar, G. G. Asalkar, dan R. G. Khedkar, "Strengthening Sentence Similarity Identification Through OpenAI Embeddings and Deep Learning," *IJACSA*, vol. 15, no. 4, 2024, doi: 10.14569/IJACSA.2024.0150485.
- [20] K. Ajroudi, M. I. Khedher, O. Jemai, dan M. A. El-Yacoubi, "Exploring the Efficacy of Text Embeddings in Early Dementia Diagnosis from Speech," dalam *2024 16th International Conference on Human System Interaction (HSI)*, Paris, France: IEEE, Jul 2024, hlm. 1–6. doi: 10.1109/HSI61632.2024.10613581.
- [21] S. K. Lho *dkk.*, "Large Language Models and Text Embeddings for Detecting Depression and Suicide in Patient Narratives," *JAMA Netw Open*, vol. 8, no. 5, hlm. e2511922, Mei 2025, doi: 10.1001/jamanetworkopen.2025.11922.
- [22] D. Venkatesh dan S. Raman, "BITS Pilani at SemEval-2024 Task 1: Using text-*embedding*-3-large and LaBSE *embeddings* for Semantic Textual Relatedness," dalam *Proceedings of the 18th International Workshop*

on *Semantic Evaluation (SemEval-2024)*, Mexico City, Mexico: Association for Computational Linguistics, 2024, hlm. 865–868. doi: 10.18653/v1/2024.semeval-1.124.

[23] R. Chandra, J. Sonawane, dan J. Lande, “An Analysis of Vaccine-Related Sentiments on Twitter (X) from Development to Deployment of COVID-19 Vaccines,” *BDCC*, vol. 8, no. 12, hlm. 186, Des 2024, doi: 10.3390/bdcc8120186.

[24] A. L. Jiménez-Preciado, J. Álvarez-García, S. Cruz-Aké, dan F. Venegas-Martínez, “The Power of Words from the 2024 United States Presidential Debates: A Natural Language Processing Approach,” *Information*, vol. 16, no. 1, hlm. 2, Des 2024, doi: 10.3390/info16010002.

[25] M. Rodríguez-Ibáñez, A. Casáñez-Ventura, F. Castejón-Mateos, dan P.-M. Cuenca-Jiménez, “A review on sentiment analysis from social media platforms,” *Expert Systems with Applications*, vol. 223, hlm. 119862, Agu 2023, doi: 10.1016/j.eswa.2023.119862.

[26] P. Monika, C. Kulkarni, N. Harish Kumar, S. Shruthi, dan V. Vani, “Machine learning approaches for sentiment analysis: A survey,” *ijhs*, hlm. 1286–1300, Apr 2022, doi: 10.53730/ijhs.v6nS4.6119.

[27] I. Nawawi, K. F. Ilmawan, M. R. Maarif, dan M. Syafrudin, “Exploring Tourist Experience through Online Reviews Using Aspect-Based Sentiment Analysis with Zero-Shot Learning for Hospitality Service Enhancement,” *Information*, vol. 15, no. 8, hlm. 499, Agu 2024, doi: 10.3390/info15080499.

[28] “Zero-shot classification with *embeddings* | OpenAI Cookbook.” Diakses: 30 Maret 2025. [Daring]. Tersedia pada: https://cookbook.openai.com/examples/zero-shot_classification_with_embeddings

[29] C. Liu, Y. Sheng, Z. Wei, dan Y.-Q. Yang, “Research of Text Classification Based on Improved TF-IDF Algorithm,” dalam *2018 IEEE International Conference of Intelligent Robotic and Control Engineering (IRCE)*, Lanzhou: IEEE, Agu 2018, hlm. 218–222. doi: 10.1109/IRCE.2018.8492945.

[30] E. Rudkowsky, M. Haselmayer, M. Wastian, M. Jenny, Š. Emrich, dan M. Sedlmair, “More than Bags of Words: Sentiment Analysis with Word Embeddings,” *Communication Methods and Measures*, vol. 12, no. 2–3, hlm. 140–157, Apr 2018, doi: 10.1080/19312458.2018.1455817.

[31] M. T. Pilehvar dan J. Camacho-Collados, “Embeddings in Natural Language Processing”.

[32] T. Mikolov, K. Chen, G. Corrado, dan J. Dean, “Efficient Estimation of Word Representations in Vector Space,” 7 September 2013, *arXiv*: arXiv:1301.3781. doi: 10.48550/arXiv.1301.3781.

[33] J. Pennington, R. Socher, dan C. Manning, “Glove: Global Vectors for Word Representation,” dalam *Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, Doha, Qatar: Association for Computational Linguistics, 2014, hlm. 1532–1543. doi: 10.3115/v1/D14-1162.

[34] A. Vaswani *dkk.*, “Attention Is All You Need,” 2 Agustus 2023, *arXiv*: arXiv:1706.03762. doi: 10.48550/arXiv.1706.03762.

[35] J. Devlin, M.-W. Chang, K. Lee, dan K. Toutanova, “BERT: Pre-training of Deep Bidirectional Transformers for Language Understanding”.

[36] M. Peters *dkk.*, “Deep Contextualized Word Representations,” dalam *Proceedings of the 2018 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Volume 1 (Long Papers)*, New Orleans, Louisiana: Association for Computational Linguistics, 2018, hlm. 2227–2237. doi: 10.18653/v1/N18-1202.

[37] O. Galal, A. H. Abdel-Gawad, dan M. Farouk, “Rethinking of BERT sentence *embedding* for text classification,” *Neural Comput & Applic*, vol. 36, no. 32, hlm. 20245–20258, Nov 2024, doi: 10.1007/s00521-024-10212-3.

[38] A. Radford, K. Narasimhan, T. Salimans, dan I. Sutskever, “Improving Language Understanding by Generative Pre-Training”.

[39] T. B. Brown *dkk.*, “Language Models are Few-Shot Learners”.

[40] A. Neelakantan *dkk.*, “Text and Code Embeddings by Contrastive Pre-Training,” 24 Januari 2022, *arXiv*: arXiv:2201.10005. doi: 10.48550/arXiv.2201.10005.

[41] Q. Li *dkk.*, “A Survey on Text Classification: From Traditional to Deep Learning,” *ACM Trans. Intell. Syst. Technol.*, vol. 13, no. 2, hlm. 1–41, Apr 2022, doi: 10.1145/3495162.

[42] H.-T. Duong dan T.-A. Nguyen-Thi, “A review: preprocessing techniques and data augmentation for sentiment analysis,” *Comput Soc Netw*, vol. 8, no. 1, hlm. 1, Des 2021, doi: 10.1186/s40649-020-00080-x.

[43] P. R. Amalia dan E. Winarko, “Aspect-Based Sentiment Analysis on Indonesian Restaurant Review Using a Combination of Convolutional Neural Network and Contextualized Word Embedding,” *Indonesian J. Comput. Cybern. Syst.*, vol. 15, no. 3, hlm. 285, Jul 2021, doi: 10.22146/ijccs.67306.

[44] C. Kuo, *The handbook of NLP with Gensim: leverage topic modeling to uncover hidden patterns, themes, and valuable insights within textual data*, 1st edition. Birmingham, UK: Packt Publishing Ltd., 2023.

[45] O. Ozyurt dan A. Ayaz, “Twenty-five years of education and information technologies: Insights from a topic modeling based bibliometric analysis,” *Educ Inf Technol*, vol. 27, no. 8, hlm. 11025–11054, Sep 2022, doi: 10.1007/s10639-022-11071-y.

[46] E. Hokijulandy, H. Napitupulu, dan Firdaniza, “Application of SVM and Chi-Square Feature Selection for Sentiment Analysis of Indonesia’s National Health Insurance Mobile Application,” *Mathematics*, vol. 11, no. 17, hlm. 3765, Sep 2023, doi: 10.3390/math11173765.

[47] “What is the default threshold in Sklearn logistic regression? - GeeksforGeeks.” Diakses: 16 Juni 2025.

[Daring]. Tersedia pada: <https://www.geeksforgeeks.org/data-science/what-is-the-default-threshold-in-sklearn-logistic-regression/>