

DAFTAR PUSTAKA

- Adamopoulou, E., dan Moussiades, L., 2020, Chatbots: History, technology, and applications, *Machine Learning with Applications*, 2 (53), 2-18.
- Agarwal, R., dan Mani, W., 2020, Review of State-of-the-Art Design Techniques for Chatbots. *SN Computer Science*, 1 (50), 246.
- Aleedy, M., Shaiba, H., 2019, Generating and Analyzing Chatbot Responses using Natural Language Processing, *International Journal of Advanced Computer Science and Applications*, 10 (9), 60-68.
- Aziz, A., Saptono, R., dan Suryajaya, K.P., 2015, Implementasi Vector Space Model dalam Pembangkitan Frequently Asked Questions Otomatis dan Solusi yang Relevan untuk Keluhan Pelanggan, *Scientific Journal of Informatics*, 2 (2), 111-122.
- Bhirud, N., Tataale, S., Randive, S., dan Nahar, S., 2019, A Literature Review On Chatbots in Healthcare Domain, *International Journal Of Scientific & Technology Research* 8 (17), 255-231.
- Broadbent, J., & Lodge, J., 2021, Use of live chat in higher education to support self-regulated help-seeking behaviours: A comparison of online and blended learner perspectives. *International Journal of Educational Technology in Higher Education*, 18(17), 1–20.
- Brown, T. B., Mann, B., Ryder, N., Subbiah, M., Kaplan, J., Dhariwal, P., Neelakantan, A., Shyam, P., Sastry, G., Askell, A., & Agarwal, S., 2020, Language models are few-shot learners. *arXiv preprint arXiv:2005.14165*.
- Chandra, Y. W., dan Suyanto, S., 2019, Indonesian Chatbot of University Admission Using a Question Answering System Based on Sequence-to-Sequence Model, *Proceeding 4th International Conference on Computer Science and Computational Intelligence* 157, Yogyakarta, September 12-13, 368-372.
- Deepthi, G., & Sowjanya, A. M., 2021, Query-Based Retrieval Using Universal Sentence Encoder. *Revue d'Intelligence Artificielle*, 35(4), 301–306. <https://doi.org/10.18280/ria.350404>.

- Devlin, J., Chang, M. W., Lee, K., dan Toutanova, K., 2019, BERT: Pre-training of deep bidirectional transformers for language understanding. *Nature*, 1 (593), 1230-1235.
- El-Sallab, A., Mohamed, A., & Misk, M., 2015, "Applications of Chatbots in Customer Service: A Survey." *International Journal of Advanced Computer Science and Applications*, 6(4), 81-89.
- Elholiqi, A., dan Musdholifah, A., 2020, Chatbot in Bahasa Indonesia Using NLP to Provide Banking Information, *Indonesian Journal of Computing and Cybernetics Systems*, 14 (1), 91-102.
- Elmorshidy, A., 2013, Applying The Technology Acceptance And Service Quality Models To Live Customer Support Chat For E-Commerce Websites, *The Journal of Applied Business Research*, 29 (2), 589-596.
- Erlina, M., dan Christian, Y., 2022, Web-Based Chatbot with Natural Language Processing and Khuth-Morris-Pratt (Case Study: Universitas Internasional Batam), *Jurnal Sains dan Teknologi*, 11 (1), 132-141.
- Goldberg, Y., 2016, *A Primer on Neural Network Models for Natural Language Processing*. Synthesis Lectures on Human Language Technologies, 9(1), 1-309.
- Hearst, M. A., 1992, "Patterns, Rules, and Trees: Natural Language Processing and Morphology." *Cognitive Science*, 16(1), 55-81.
- Islam, M. A. N., Warsito, B., dan Nurhayati, O. D., 2024, AI-Driven Chatbot Implementation For Enhancing Customer Service In Higher Education: A Case Study From Universitas Negeri Semarang, *Journal of Theoretical and Applied Information Technology*, 102(14), 5690-5700.
- Jurgita, K.D., 2020, A Domain-Specific Generative Chatbot Trained from Little Data, *Applied Sciences*, 10 (7), 1-22.
- Kader, S. A., dan Woods, J., 2015, Survey on Chatbot Design Techniques in Speech Conversation Systems, *International Journal of Advanced Computer Science and Applications*, 6 (7), 72-80.

- Kaplan, J., McCandlish, S., Henighan, T., Brown, T. B., Chess, B., Child, R., Gray, S., Radford, A., Wu, J., & Amodei, D., 2020, Scaling laws for neural language models. *arXiv preprint arXiv:2001.08361*.
- Klopfenstein, L. C., Delpriori, S., Malatini, S., Bogliolo, A., 2017, The Rise of Bots: A Survey of Conversational Interfaces Patterns and Paradigms, *Conference on Designing Interactive Systems*, 555-565, <https://doi.org/10.1145/3064663.3064672>.
- Lan, F., 2022, Research on Text Similarity Measurement Hybrid Algorithm with Term Semantic Information and TF-IDF Method. *Advances in Multimedia*, 2022, 1–11. <https://doi.org/10.1155/2022/7923262>.
- MacDonald, S., 2020, New Research: 21% of Companies Fail to Respond to Live Chat Requests, <https://www.superoffice.com/blog/live-chat-support-study>. Diakses pada 26 Januari 2022.
- Marche, S., 2021, The Chatbot Problem, <https://www.newyorker.com/culture/cultural-comment/the-chatbot-problem>. Diakses pada 3 Maret 2022.
- Martin, A., Wessel, M., dan Benlian, A., 2020, AI-based chatbots in customer service and their effectson user compliance, *Electronic Markets*, 31, 427–445.
- Mikolov, T., Chen, K., Corrado, G., & Dean, J., 2013, *Efficient Estimation of Word Representations in Vector Space*, . *arXiv preprint*, arXiv:1301.3781.
- Murhadi, M., 2019, Rancang Bangun Aplikasi Chatbot sebagai Bentuk Pelayanan Prima Untuk Penerimaan Mahasiswa Baru, *Jurnal INTEK 2 (1)*, 1-7.
- Nivedhitha, G., Punarselvam, E., Aagash, K.R., Elayabarathi, M., Rahul, K., Shantosh, R., 2021, AI Consulting Healthcare Chatbot System Using Pattern Matching, *International Journal of Scientific Research in Science and Tehcnology*, 8 (3), 18-22.
- Nuruzzaman M., dan Hussain O.K., 2020, IntelliBot: A Dialogue-based chatbot for the insurance industry, *Knowledge-Based System*, 196, 1-19.
- Papineni, K., Roukos, S., Ward, T., dan Zhu, W.-J., 2002, BLEU: a Method for Automatic Evaluation of Machine Translation. In *Proceedings of the 40th Annual Meeting on Association for Computational Linguistics*, 311-318.

- Pardeshi, S., Oval, S., Shinde, P., Bansode, M., Biradjar, A., 2020, A survey on Different Algorithms used in Chatbot, *International Research Journal of Engineering and Technology (IRJET)*, 7 (5), 6092-6098.
- Pennington, J., Socher, R., & Manning, C., 2014, Glove: Global Vectors for Word Representation. *Proceedings of the 2014 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 1532–1543. <https://doi.org/10.3115/v1/D14-1162>
- Prassanna, J., Nawas, K.K., Jackson, C.J., R. Prabakaran, Ramanath, S., 2020, Towards Building A Neural Conversation Chatbot Through Seq2Seq Model. *International Journal of Scientific & Technology Research*, 9 (3), 1219-1222.
- Qiu, Y., & Jin, Y., 2022, Engineering Document Summarization: A Bidirectional Language Model-Based Approach, *Journal of Computing and Information Science in Engineering*, 22 (1), 1-16.
- Raffel, C., Shazeer, N., Roberts, A., Lee, K., Narang, S., Matena, M., Zhou, Y., Li, W., & Liu, P. J. , 2020, Exploring the limits of transfer learning with a unified text-to-text transformer, *Journal of Machine Learning Research*, 21(140), 1-67.
- Reijrink, E., 2020, 5 Ways to use Live Chat for a Better Customer Experience, <https://www.superoffice.com/blog/live-chat-customer-experience>. Diakses 25 April 2022.
- Reimers, N., & Gurevych, I., 2019, Sentence-BERT: Sentence Embeddings using Siamese BERT-Networks, *arXiv eprint*, arXiv:1908.10084.
- Sakketou, F., & Ampazis, N., 2020, A constrained optimization algorithm for learning GloVe embeddings with semantic lexicons. *Knowledge-Based Systems*, 195, 105628. <https://doi.org/10.1016/j.knosys.2020.105628>.
- Shang, L., dan Li, H., 2015, Neural Responding Machine for Short-Text Conversation, July 2015, Beijing China, 1577–1586.
- Sheikh, S.A., Singhal, S., Tiwari, V., 2019, Artificial Intelligence based Chatbot for Human Resource:A Survey, *Journal of Emerging Technologies and Innovative Research (JETIR)*, 6 (1), 363-369.

- Sokolovska, L., Huang, G., Yu, M., dan Mahmood, T., 2019, "Evaluation Metrics for Natural Language Generation: A Survey." *arXiv preprint arXiv:1906.08963*.
- Sutskever, I., Vinyals, O., dan Le, Q. V., 2014, Sequence to Sequence Learning with Neural Networks. In *Advances in Neural Information Processing Systems*, *arXiv eprint arXiv:1409.3215*, 3104-3112.
- Tao, C., Wu, W., Xu, C., Hu, W., Zhao, D., dan Yan, R., 2019, Multi-Representation Fusion Network for Multi-Turn Response Selection in Retrieval-Based Chatbots. *Proceedings of the Twelfth ACM International Conference on Web Search and Data Mining*, 267–275. <https://doi.org/10.1145/3289600.3290985>
- Teckchandani, E., Santokhee S., Bekarool G., 2019, Chapter 30 AIML and Sequence-to-Sequence Models to Build Artificial Intelligence Chatbots: Insights from a Comparative Analysis. *International Conference on Emerging Trends in Electrical, Electronic and Communications Engineering*, 561, https://doi.org/10.1007/978-3-030-18240-3_30.
- Vaswani, A., Shazeer, N., Parmar, N., Uszkoreit, J., Jones, L., Gomez, A. N., Kaiser, L., & Polosukhin, I., 2017, Attention is all you need, *Advances in neural information processing systems*, *arXiv eprint, arXiv:1706.03762*, 5998-6008.
- Wang, B., & Kuo, C.-C. J., 2020, SBERT-WK: A Sentence Embedding Method by Dissecting BERT-Based Word Models. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 28, 2146–2157. <https://doi.org/10.1109/TASLP.2020.3008390>.
- Yogish, D., Manjunath, T.N., dan Hegadi, R.S., 2019, Variants of Term Frequency and Inverse Document Frequency of Vector Space Model for Effective Document Ranking in Information Retrieval, *International Journal of Innovative Technology and Exploring Engineering*, 8 (7), 414-421.
- Zalake, N., dan Naik, G., 2019, Generative Chatbot Implementation using Deep Recurrent Neural Network and Natural Language Understanding, *Conference*

on Technologies for Future Cities, 8-9 Januari 2019, New Panvel, Maharashtra, India.

Zumstein, D., dan Hundertmark, S., 2017, Chatbots – An Interactive Technology for Personalized Communication, Transactions and Services, *IADIS International Journal on www/Internet 15 (1)*, 96-109.



SEKOLAH PASCASARJANA