

DAFTAR PUSTAKA

- Abdullah, K., Jannah, M., Aiman, U., Hasda, S., Fadila, Z., Taqwin, Masita, Ardiawan, K. N., & Sari, M. E. (2021). *Metodologi Penelitian Kuantitatif* (N. Saputra, Ed.).
- Agustian, F., & Yuliana, A. (2024). Aplikasi Chatbot Pelayanan Publik Berbasis Website (Studi Kasus Sekretariat DPRD Kota Cimahi). *Jurnal Informatika Dan Teknik Elektro Terapan*, 12(3S1). <https://doi.org/10.23960/jitet.v12i3s1.5202>
- Albert, G. D., & Voutama, A. (2025). Pengembangan Chatbot Berbasis PDF Menggunakan Local Retrieval-Augmented Generation (RAG) dan Ollama. *JITET (Jurnal Informatika Dan Teknik Elektro Terapan)*, 13(2). <https://doi.org/10.23960/jitet.v13i2.6361>
- Alghozali, S., & Mukminatun, S. (2024). Natural Language Processing of Gemini Artificial Intelligence Powered Chatbot. *BALANGKAS*, 1(1), 41–48. <https://doi.org/10.66317/688570>
- AlShammari, A. F. (2023). Implementation of Text Similarity using Cosine Similarity Method in Python. *International Journal of Computer Applications*, 185(2), 975–8887. <https://doi.org/10.5120/ijca2023922667>
- Antal, M., & Buza, K. (2025). Evaluating Open-Source LLMs in RAG Systems: A Benchmark on Diploma Theses Abstracts Using Ragas. *Acta Universitatis Sapientiae, Informatica*, 17(1). <https://doi.org/10.1007/s44427-025-00006-3>
- Asri, Y., Kuswardanai, D., Falahtama, F. D., Sari, A. A., & Prasetyo, S. M. (2025). *A Large Language Model: Penerapan Large Language Model (LLM) Dalam Chatbot*.
- Asudani, D. S., Nagwani, N. K., & Singh, P. (2023). Impact of word embedding models on text analytics in deep learning environment: a review. *Artificial Intelligence Review*, 56(9), 10345–10425. <https://doi.org/10.1007/s10462-023-10419-1>
- Bernardo, R. T., Viviane, P. M., Paula, S. F. F., & Bencke, L. R. (2025). *Advanced Chunking Techniques: a Novel Approach for Semantic Splitters*. <https://doi.org/10.5753/sbbd.2025.247263>
- Chen, H., Yang, Y., Li, Y., Zhang, M., Hu, B., & Zhang, M. (2026). *Beyond Chunking: Discourse-Aware Hierarchical Retrieval for Long Document Question Answering*. <https://doi.org/10.48550/arXiv.2506.06313>
- Ciptanto, E. N., & Nasrul. (2024). Pengembangan Rest API Untuk Ekstraksi Informasi Dari Resume Menggunakan Java Spring Boot. *Journal of Digital Business and Technology Innovation (DBESTI)*, 1(2), 51–60. <https://doi.org/https://doi.org/10.54914/dbesti.v1i2.1148>
- Es, S., James, J., Espinosa-Anke, L., & Schockaert, S. (2025). *Ragas: Automated Evaluation of Retrieval Augmented Generation*. <https://doi.org/10.48550/arXiv.2309.15217>
- Febriano, F., & Rino. (2026). Penerapan Machine Learning Pada Chatbot Sebagai Customer Support Untuk Memberikan Pendekatan Problem Solving. *Jurnal*

- Mahasiswa Teknik Informatika, 10(3).
<https://doi.org/10.36040/jati.v10i3.18296>
- Gauthier, J.-D., Sastrowardoyo, P. W., & Purbo, O. W. (2025). *Hosting AI di Rumah: Solusi Open-Source dan Right-Sizing LLM untuk Kedaulatan Digital*.
- Gupta, S., Ranjan, R., & Singh, S. N. (2024). *A Comprehensive Survey of Retrieval-Augmented Generation (RAG): Evolution, Current Landscape and Future Directions*. <https://doi.org/10.48550/arXiv.2410.12837>
- Hidayatullah, M. M., Riana, F., Setiawan, F. A., & Djiwanti, S. R. (2026). Rancang Bangun Website Dan Chatbot Informasi Tanaman Jahe. *Jurnal Mahasiswa Teknik Informatika*, 10(2). <https://doi.org/10.36040/jati.v10i2.17782>
- Husain, M. L., Wibisono, Y., & Anisyah, A. (2025). Development of an Academic Services Chatbot Based on Retrieval-Augmented Generation (RAG). *Brilliance: Research of Artificial Intelligence*, 5(2), 727–735. <https://doi.org/10.47709/brilliance.v5i2.6719>
- Januzaj, Y., & Luma, A. (2022). Cosine Similarity – A Computing Approach to Match Similarity Between Higher Education Programs and Job Market Demands Based on Maximum Number of Common Words. *International Journal of Emerging Technologies in Learning*, 17(12), 258–268. <https://doi.org/10.3991/ijet.v17i12.30375>
- Jeong, C. (2023). *A Study on the Implementation of Generative AI Services Using an Enterprise Data-Based LLM Application Architecture*. <https://doi.org/10.54364/AAIML.2023.1191>
- Juliani, D., & Soleh, M. (2024). *Implementasi Machine Learning untuk Klasifikasi Penyakit Kanker Paru Menggunakan Metode Naïve Bayes dengan Tambahan Fitur Chatbot*. <https://doi.org/10.31543/jii.v8i2.351>
- Kizi, M. K. Z., & Suh, Y. (2025). Design and Performance Evaluation of LLM-Based RAG Pipelines for Chatbot Services in International Student Admissions. *Electronics (Switzerland)*, 14(15). <https://doi.org/10.3390/electronics14153095>
- Lumbantoruan, R., Pane, S. F., Siregar, M. A. H., Suhartono, B., Trisnawan, A. B., Salman, Herikson, R., Ulfiah, Herlambang, I. R., Yunita, F., Dristyan, F., Bansoma, Meynahan Budi, Resita, E., Meri, M., Riza, F., & Aulia, R. (2026). *Machine Learning: Konsep, Teknologi, dan Aplikasi*.
- Ma, L., Zhang, R., Han, Y., Yu, S., Wang, Z., Ning, Z., Zhang, J., Xu, P., Li, P., Ju, W., Chen, C., Wang, D., Liu, K., Wang, P., Wang, P., Fu, Y., Liu, C., Zhou, Y., & Lu, C.-T. (2025). *A Comprehensive Survey on Vector Database: Storage and Retrieval Technique, Challenge*. <https://doi.org/10.48550/arXiv.2310.11703>
- Mallu, S., Hendrawan, S. A., Widyastuti, R., Wardhani, D., Arni, S., Suyono, Wayahdi, M. R., Yahya, K., Nurmawati, D., & Arifin, S. (2023). *Rekayasa Perangkat Lunak*.
- Mandowen, S. A., Prasetyo, E., Riono, S. H., Jaya, T. S., Taufiqurrahman, & Judijanto, L. (2025). *Artificial Intelligence Konsep Dasar dan Kajian Praktis*.
- Muchori, J. G., & Maina, M. P. (2025). A Systematic Literature Review on Application of Text Embedding Techniques in NLP. *International Journal of Scientific Research in Computer Science and Engineering*, 13(6), 45–61. <https://doi.org/10.26438/ijsrcse.v13i6.791>

- Muhajir, M. D. A., Prastiti, N., & Koeshardianto, M. (2025). Implementasi Chatbot Menggunakan Framework LangChain Berbasis LLM GPT (Studi Kasus: Panduan Akademik Universitas Trunojoyo). *Jurnal Mahasiswa Teknik Informatika*, 9(2). <https://doi.org/10.36040/jati.v9i2.13003>
- Neupane, S., Hossain, E., Keith, J., Tripathi, H., Ghiasi, F., Golilarz, N. A., Amirlatifi, A., Mittal, S., & Rahimi, S. (2024). *From Questions to Insightful Answers: Building an Informed Chatbot for University Resources*. <http://arxiv.org/abs/2405.08120>
- Nisa', C., Wijaya, A., & Rizal, F. (2024). *Teori UML Dan Praktek Panduan Untuk Pengembangan Perangkat Lunak*. www.bravopress.id
- Ohhyver, D. A., Sa'dianoor, Junaidi, S., & Adawiyah, R. (2024). *Buku Ajar Kecerdasan Buatan*.
- Pan, J. J., Wang, J., & Li, G. (2023). *Survey of Vector Database Management Systems*. <https://doi.org/10.48550/arXiv.2310.14021>
- Pande, A., Patil, R., Mukkemwar, R., Panchal, R., & Bhoite, S. (2024). *Comprehensive Study of Google Gemini and Text Generating Models: Understanding Capabilities and Performance*.
- Parrangan, J., Mappanyompa, Trisnawan, A. B., Dongka, R. H., Kadir, Y., Wiranto, I., Fikri, M. A., Syamsuddin, S., Priyangan, D. M., Imandeka, E., & Putra, I. K. A. (2026). *Pengantar Artificial Intelligence (AI)*.
- Philip, J. A., & Srivastava, J. (2023). *Exploring the effectiveness of combined cosine similarity and convolutional neural networks for text similarity analysis*. <https://doi.org/10.2139/ssrn.4624815>
- Purwanto, F. H., & Alfarisi, F. (2025). *Perancangan Chatbot WhatsApp untuk Mendukung Layanan Penerimaan Mahasiswa Baru Menggunakan Node.js*. *Designing a WhatsApp Chatbot for Student Admission Using Node.js*. 15(2). <https://doi.org/10.30700/sisfotenika.v15i1.559>
- Putri, M. P., Barovih, G., Azdy, R. A., Saputra, A., Sriyeni, Y., Rini, A., & Admojo, F. T. (2022). *Algoritma Dan Struktur Data*. www.penerbitwidina.com
- Qoniah, N. N., & Ramadhani, D. (2025). *Optimization of Feminacare Chatbot Application Using SeaLLM Model*. <https://doi.org/10.57152/ijirse.v5i1.2043>
- Rahman, A., Mahir, S. H., Tashrif, M. T. A., Aishi, A. A., Karim, M. A., Kundu, D., Debnath, T., Moududi, Md. A. A., & Eidmum, MD. Z. A. (2025). *Comparative Analysis Based on DeepSeek, ChatGPT, and Google Gemini: Features, Techniques, Performance, Future Prospects*. <https://doi.org/10.48550/arXiv.2503.04783>
- Rizal, M., Ahmad, P. F., Amelia, W., & Muthia, S. (2025). Pengguna (User Acceptance Testing) Pada Sistem Informasi Akademik EMACCA Universitas Teknologi AKBA Makassar. *Inventor: Jurnal Inovasi Dan Tren Pendidikan Teknologi Informasi*, 3(2), 84–91. <https://doi.org/10.37630/inventor.v3i2.2541>
- Samodra, J., Haq, S. T. N., & Widayanti, E. (2024). *Analisis dan Desain Algoritma*.
- Samperura, B., Suhadi, M. S., & Awangga, R. M. (2023). *Panduan Untuk Membuat Chatbot Cerdas Implementasi OpenAI Di Telegram Dan Discord*.
- Sharma, C. (2025). *Retrieval-Augmented Generation: A Comprehensive Survey of Architectures, Enhancements, and Robustness Frontiers*. <https://doi.org/10.48550/arXiv.2506.00054>

- Siahaan, D. J. V., Putri, M., Andarsyah, R., & Awangga, R. M. (2023). *Cara Praktis Membuat Chatbot WhatsApp*.
- Sudipa, I. G. I., Ariantini, M. S., Pomalingo, S., Ridwan, A., Primasari, D., Ariana, A. A. G. B., Ilham, R., Arsana, I. N. A., Irmawati, & Yanuarsyah, I. (2023). *Buku Ajar Rekayasa Perangkat Lunak* (Efitra & Sepriano, Eds.).
- Sudirwo, Hadi, A., Judijanto, L., Purwandari, N., Zain, N. N. L. E., Rambe, K. H., Mukhlis, I. R., Jihadi, H., Mahliatussikah, H., Baskoro, H., & Yusufi, A. (2025). *Artificial Intelligence: Teori, Konsep, dan Implementasi di Berbagai Bidang*.
- Suryanto, T. L. M., Sa'diyah, I., Wahyuni, E. D., Akbar, M. I. A., Wibawa, A. P., & Hariyono. (2025). *Chatbot dan Masyarakat Digital*.
- Taipalus, T. (2024). Vector Database Management Systems: Fundamental Concepts, Use-Cases, and Current Challenges. *Cognitive Systems Research*, 85. <https://doi.org/10.1016/j.cogsys.2024.101216>
- Talaohu, S. A., Soekarta, R., & Surahmanto, M. (2025). *Implementasi LLM Pada Chatbot PMB Universitas Muhammadiyah Sorong Menggunakan Metode RAG Berbasis Website*. 03(02). <https://doi.org/10.33506/framework.v3i02.4790>
- Virgiansyah, M. R., & Pribadi, M. R. (2025). *Sistem Chatbot Helpdesk WhatsApp Berbasis Large Language Model Gemini dengan Fine-Tuning Menggunakan Retrieval-Augmented Generation dan Qdrant Vector Database (Studi Kasus: Universitas Multi Data Palembang)*. 10(2). http://ejournal.ust.ac.id/index.php/Jurnal_Means
- Wardhono, A., Kumaidi, Muhajir, & Budianto, S. (2026). *Semantics For Higher Education*.
- Wibowo, A. (2023). *Aplikasi AI Generatif: Cara praktis tentang Model Difusi, ChatGPT, dan LLM (Large Language Models)*.
- Yuliandre, M. B., Kaniawulan, I., & Lestari, C. D. (2023). Sistem Informasi Pengarsipan Berbasis Web Menggunakan Metode Extreme Programming Di Balai Kesatuan Pengelolaan Hutan (BKPH) Sadang Perhutani Puwakarta. *Jurnal Mahasiswa Teknik Informatika*, 7(3), 1181. <https://doi.org/10.36040/jati.v7i3.6986>
- Zhao, J., Ji, Z., Feng, Y., Qi, P., Niu, S., Tang, B., Xiong, F., & Li, Z. (2025). *Meta-Chunking: Learning Text Segmentation and Semantic Completion via Logical Perception*. <https://doi.org/10.48550/arXiv.2410.12788>
- Zhao, P., Zhang, H., Yu, Q., Wang, Z., Geng, Y., Fu, F., Yang, L., Zhang, W., Jiang, J., & Cui, B. (2024). *Retrieval-Augmented Generation for AI-Generated Content: A Survey*. <https://doi.org/10.48550/arXiv.2402.19473>