

DAFTAR PUSTAKA

- Adiyasa, M. R., & Meiyanti, M. (2021). Pemanfaatan obat tradisional di Indonesia: Distribusi dan faktor demografis yang berpengaruh. *Jurnal Biomedika dan Kesehatan*, 4(3), 130–138. <https://doi.org/10.18051/JBiomedKes.2021.v4.130-138>
- Agustian, B. (2022). *Sistem Informasi Kalibrasi Torque Wrench* (T. Hidayati, Ed.). Pascal Books.
- Ainslie, J., Lee-Thorp, J., de Jong, M., Zemlyanskiy, Y., Lebrón, F., & Sanghai, S. (2023). GQA: Training generalized multi-query transformer models from multi-head checkpoints. *ArXiv Preprint ArXiv:2305.13245*. <http://arxiv.org/abs/2305.13245>
- Alda, M., Galasca, S. A., Asyiqin, N., & Tanjung, D. (2023). Sistem tanda tangan digital internal divisi TI menggunakan metode rapid application development (RAD). *KLIK: Kajian Ilmiah Informatika dan Komputer*, 4(3), 1922–1929. <https://doi.org/10.30865/klik.v4i3.1461>
- Aras, S., Kelian, M. N., S, I., & Faridah, A. (2025). AI-based chatbot system for education and recommendations on the use of native Papuan herbal plants using the large language models method. *International Journal of Informatics, Information System and Computer Engineering (INJIISCOM)*, 6(1), 96–105. <https://doi.org/10.34010/injiiscom.v6i1.13575>
- Azmi, Z., & Yasin, V. (2022). *Kecerdasan Buatan dan Implementasinya*. Mitra Wacana Media.
- Badan Pengawas Obat dan Makanan (BPOM). (2021, Oktober 22). Jumlah Produk Obat Tradisional berdasarkan Kategori. Portal Satu Data BPOM. <https://satudata.pom.go.id/datasets/29-jumlah-produk-obat-tradisional-berdasarkan-kategori>
- Benzinho, J., Ferreira, J., Batista, J., Pereira, L., Maximiano, M., Távora, V., Gomes, R., & Remédios, O. (2024). LLM based chatbot for farm-to-fork blockchain traceability platform. *Applied Sciences*, 14(19), 8856. <https://doi.org/10.3390/app14198856>
- Budhi, I. G. K. (2022). *Artificial Intelligence: Konsep, Potensi Masalah, Hingga Pertanggungjawaban Pidana* (M. Irweyina, Ed.; 1 ed.). RajaGrafindo Persada.
- Calvaresi, D., Eggenschwiler, S., Mualla, Y., Schumacher, M., & Calbimonte, J. P. (2023). Exploring agent-based chatbots: A systematic literature review. *Journal of Ambient Intelligence and Humanized Computing*, 14, 11207–11226. <https://doi.org/10.1007/s12652-023-04626-5>
- Douglas, M. R. (2023). Large language models. *ArXiv Preprint ArXiv:2307.05782*. <http://arxiv.org/abs/2307.05782>

- Elysia, S., & Herianto. (2024). Chatbot berbasis retrieval augmented generation (RAG) untuk peningkatan layanan informasi sekolah. *Journal TIFDA (Technology Information and Data Analytic)*, 1(2), 52–58. <https://doi.org/10.70491/tifda.v1i2.52>
- Es, S., James, J., Espinosa-Anke, L., & Schockaert, S. (2023). RAGAS: Automated Evaluation of Retrieval Augmented Generation. *arXiv Preprint ArXiv:2309.15217*.
- Faradilla, N., Diana, K., & Tandah, M. R. (2022). Analisis faktor yang mempengaruhi konsumen dalam membeli obat tradisional di Kota Luwuk. *Jurnal Farmasi Galenika*, 9(2), 78–91. <https://doi.org/10.70410/jfg.v9i2.201>
- Firdaus, D., Sumardi, I., & Kulsum, Y. (2024). Integrating retrieval-augmented generation with large language model Mistral 7B for Indonesian medical herb. *JISKA (Jurnal Informatika Sunan Kalijaga)*, 9(3), 230–243.
- Gao, Y., Xiong, Y., Gao, X., Jia, K., Pan, J., Bi, Y., Dai, Y., Sun, J., Wang, M., & Wang, H. (2024). Retrieval-augmented generation for large language models: A survey. *ArXiv Preprint ArXiv:2312.10997*. <http://arxiv.org/abs/2312.10997>
- Godinho, A., Rosado, J., Sá, F., & Cardoso, F. (2024). Performance comparison of RESTful web APIs using a test suite: .NET vs. Java Spring Boot. *Journal of Software & Systems Development*, 2024, Article ID 478010. <https://doi.org/10.5171/2024.478010>
- Grattafiori, A., Dubey, A., Jauhri, A., Pandey, A., Kadian, A., Al-Dahle, A., Letman, A., Mathur, A., Schelten, A., Vaughan, A., Yang, A., Fan, A., Goyal, A., Hartshorn, A., Yang, A., Mitra, A., Sravankumar, A., Korenev, A., Hinsvark, A., ... Ma, Z. (2024). The Llama 3 Herd of Models. *ArXiv Preprint ArXiv:2407.21783*. <http://arxiv.org/abs/2407.21783>
- Gupta, S., Ranjan, R., & Singh, S. N. (2024). A comprehensive survey of retrieval-augmented generation (RAG): Evolution, current landscape and future directions. *arXiv preprint arXiv:2410.12837*. <https://arxiv.org/abs/2410.12837>
- Hadi, M. U., Al-Tashi, Q., Qureshi, R., Shah, A., Muneer, A., Irfan, M., Zafar, A., Shaikh, M. B., Akhtar, N., Wu, J., & Mirjalili, S. (2025). Large language models: A comprehensive survey of its applications, challenges, limitations, and future prospects. *TechRxiv*. <https://doi.org/10.36227/techrxiv.23589741.v8>
- Hasanah, F. N., & Untari, R. S. (2020). *Buku ajar rekayasa perangkat lunak (M. Suryawinata, Ed.; 1 ed.)*. UMSIDA Press.
- Jeong, C. (2023). A study on the implementation of generative AI services using an enterprise data-based LLM application architecture. *Advances in Artificial Intelligence and Machine Learning; Research*, 3(4), 1588–1618. <https://doi.org/10.54364/AAIML.2023.1191>
- Kartamanah, F. F., Atmadja, A. R., & Budiman, I. (2025). Analyzing PEGASUS model performance with ROUGE on Indonesian news summarization. *Sinkron*, 9(1), 31–42. <https://doi.org/10.33395/sinkron.v9i1.14303>

- Ke, Y. H., Jin, L., Elangovan, K., Abdullah, H. R., Liu, N., Sia, A. T. H., Soh, C. R., Tung, J. Y. M., Ong, J. C. L., Kuo, C. F., Wu, S. C., Kovacheva, V. P., & Ting, D. S. W. (2025). Retrieval augmented generation for 10 large language models and its generalizability in assessing medical fitness. *Npj Digital Medicine*, 8(187). <https://doi.org/10.1038/s41746-025-01519-z>
- Kementerian Kesehatan Republik Indonesia. (2023). *Survei Kesehatan Indonesia 2023 dalam Angka*.
- Khairunnisa, V., & Dewi, S. (2024). Analisis pola pemasaran produk HNI-HPAI dalam meningkatkan jumlah penjualan dilihat dari perspektif bisnis syariah. *Jurnal Ekonomi Sakti*, 13(2), 202–214.
- Lalaei, R. A., & Mahmoudabadi, A. (2024). Promoting project outcomes: A development approach to generative AI and LLM-based software applications' deployment. *International Journal of Soft Computing and Engineering*, 14(3), 6–13. <https://doi.org/10.35940/ijscce.D3636.14030724>
- Li, Y., Li, Z., Zhang, K., Dan, R., Jiang, S., & Zhang, Y. (2023). ChatDoctor: A medical chat model fine-tuned on a large language model Meta-AI (LLaMA) using medical domain knowledge. *Cureus*, 15(6). <https://doi.org/10.7759/cureus.40895>
- Limbong, T., & Sriadhi. (2021). *Pemrograman Web Dasar* (J. Simarmata, Ed.; 1 ed.). Yayasan Kita Menulis.
- Mahardika, F., Merani, S. G., & Suseno, A. T. (2023). Penerapan metode extreme programming pada perancangan UML sistem informasi penggajian karyawan. *Blend Sains Jurnal Teknik*, 2(3), 204–217. <https://doi.org/10.56211/blendsains.v2i3.313>
- Merola, C., & Singh, J. (2025). Reconstructing context: Evaluating advanced chunking strategies for retrieval-augmented generation. *ArXiv Preprint ArXiv:2504.19754*. <http://arxiv.org/abs/2504.19754>
- Milasanti, D. (2024). Sistem chatbot berbasis large language model (LLM) dan retrieval augmented generation (RAG) pada artikel ilmiah Garuda Kemdikbud [Thesis (Undergraduate), Universitas Islam Sultan Agung]. <https://repository.unissula.ac.id/37541>
- Minaee, S., Mikolov, T., Nikzad, N., Chenaghlu, M., Socher, R., Amatriain, X., & Gao, J. (2025). Large language models: A survey. *ArXiv Preprint ArXiv:2402.06196*. <http://arxiv.org/abs/2402.06196>
- Mochammad, F. E. (2024). Pengembangan chatbot berbasis NLP pada Rumahkini.com untuk meningkatkan layanan klien PT. Rumah Masa Kini [Skripsi, Universitas Pembangunan Nasional Veteran Jakarta]. <https://repository.upnvj.ac.id/31696>
- Muhammad, R., Ardiansyah, M. I., & Afini, A. (2022). Mengembangkan sistem percakapan otomatis berbasis layanan pesan instan (1 ed.). *Uwais Inspirasi Indonesia*.

- Mundzir, A., Zukhriyah, A., & Sulhan, M. (2024). The implementation of Halal Network Indonesia (HNI) business among Muslim and non-Muslim communities. *Malia: Jurnal Ekonomi Islam*, 15(2), 147–157. <https://doi.org/10.35891/ml.v15i2.4308>
- Najamuddin, M., Miharja, D., & Adhkar, S. (2022). Implementasi chatbot deteksi depresi dini pada mahasiswa dengan PHQ-9 (Patient Health Questionnaire) menggunakan NLP (Natural language processing). *Prosiding SAINTEK: Sains dan Teknologi*, 1(1), 103–108.
- Naveed, H., Khan, A. U., Qiu, S., Saqib, M., Anwar, S., Usman, M., Akhtar, N., Barnes, N., & Mian, A. (2024). A comprehensive overview of large language models. *ArXiv Preprint ArXiv:2307.06435*. <http://arxiv.org/abs/2307.06435>
- Niqotaini, Z., Yulistiawan, B. S., Krisnanik, E., & Amalia, R. D. (2023). Analisa dan perancangan sistem informasi dengan Unified Modelling Language (D. Gustian, Ed.; 1 ed.). INDIE PRESS.
- Nugraha, A. S., Zulkifka, & Sabir, M. (2023). Strategi pengembangan usaha produk HNI-HPAI di Kota Timika (Studi kasus usaha milik Ibu Ayu). *Jurnal Kritis (Kebijakan, Riset, dan Inovasi)*, 7(2), 122–152.
- Nur'aini, I. (2024). Sistem chatbot sebagai layanan informasi kesehatan mental pada remaja menggunakan metode large language model (LLM) [Thesis (Undergraduate), Universitas Islam Sultan Agung]. <https://repository.unissula.ac.id/37558>
- Oktaviani, A. R., Takwiman, A., Santoso, D. A. T., Hanaratri, E. O., Damayanti, E., Maghfiroh, L., Putri, M. M., Maharani, N. A., Maulida, R., Oktadela, V. A., & Yuda, A. (2021). Pengetahuan dan pemilihan obat tradisional oleh ibu-ibu di Surabaya. *Jurnal Farmasi Komunitas*, 8(1), 1–8. <https://doi.org/10.20473/jfk.v8i1.21912>
- Pai, S. (2025). *Designing Large Language Model Applications*. O'Reilly Media.
- Pratama, A. Z., Marinta, A., Triyudanto, B., Saman, M., & Fatyanosa, T. N. (2025). Retrieval-augmented generation for Indonesian criminal law information using the LLaMA model. *Innovative Informatics and Artificial Intelligence Research (IIAIR)*, 1(1), 35–41. <https://doi.org/10.35718/iiair.v1i1.1306>
- Purnama, B., & Sofana, I. (2021). Implementasi Artificial Intelligence dan Machine Learning. *Informatika Bandung*.
- Putri, T. E., & Ramadhan, G. (2024). Penerapan chatbot sebagai alat pembelajaran untuk pengembangan pendidikan karakter. *Indonesian Journal of Computer Science and Engineering (IJCSE)*, 1(1), 32–38.
- Radeva, I., Popchev, I., Doukovska, L., & Dimitrova, M. (2024). Web application for retrieval-augmented generation: Implementation and testing. <https://doi.org/10.20944/preprints202403.0844.v1>

- Raiaan, M. A. K., Mukta, Md. S. H., Fatema, K., Fahad, N. M., Sakib, S., Mim, M. M. J., Ahmad, J., Ali, M. E., & Azam, S. (2024). A review on large language models: Architectures, applications, taxonomies, open issues and challenges. *IEEE Access*, 12, 26839–26874. <https://doi.org/10.1109/ACCESS.2024.3365742>
- Raza, M., Jahangir, Z., Riaz, M. B., Saeed, M. J., & Sattar, M. A. (2025). Industrial applications of large language models. *Scientific Reports*, 15(13755). <https://doi.org/10.1038/s41598-025-98483-1>
- Rosyad, A. J., & Utami, A. W. (2024). Pengembangan sistem blast dan chatbot untuk penyebaran informasi di komunitas IPI (Ibu Pembelajar Indonesia) dengan menggunakan library WhatsApp-Web.js. *JEISBI: Journal of Emerging Information Systems and Business Intelligence*, 5(3), 43–52.
- Samsudin, Rasyad, I. H., & Rangkuti, F. W. P. (2024). Rancang bangun aplikasi logbook maintenance berbasis web pada BBMKG Wilayah I Medan. *G-Tech: Jurnal Teknologi Terapan*, 8(2), 768–777. <https://doi.org/10.33379/gtech.v8i2.4038>
- Samudra, G., Zy, A. T., & Ermanto. (2025). Implementasi retrieval augmented generation (RAG) dalam perancangan chatbot kesehatan pencernaan. *JSAI: Journal Scientific and Applied Informatics*, 8(1), 181–188. <https://doi.org/10.36085>
- Silitonga, A. I. (2024). *Kecerdasan Buatan Pada Bisnis Digital* (S. Ambar, Ed.). Omera Pustaka.
- Sulaiman, D. H., Taufik, R., & Shadiq, T. F. (2022). Analisis sertifikasi halal, harga, kualitas produk dan promosi terhadap keputusan pembelian produk herbal halal. *Jurnal Pemandhu*, 3(2), 45–2.
- Tari. (2021). Model komunikasi bisnis Halal Network International (HNI) dalam meningkatkan penjualan produk pada BC 4 Jl. Melati No. 35, Simpang Baru, Kecamatan Tampan Kota Pekanbaru [Thesis (Skripsi), Universitas Islam Negeri Sultan Syarif Kasim]. <https://repository.uin-suska.ac.id/55770>
- Vajjala, S., Majumder, B., Gupta, A., & Surana, H. (2020). *Practical Natural Language Processing: A Comprehensive Guide to Building Real-World NLP System*. O'Reilly Media.
- Vavekanand, R., & Sam, K. (2024). LLaMA 3.1: An in-depth analysis of the next generation large language model. <https://doi.org/10.13140/RG.2.2.10628.74882>
- Wang, J., Shao, W., Chen, M., Wu, C., Liu, Y., Wu, T., Zhang, K., Zhang, S., Chen, K., & Luo, P. (2024). Adapting LLaMA decoder to Vision Transformer. *ArXiv Preprint ArXiv:2404.06773*. <http://arxiv.org/abs/2404.06773>
- Wu, S., Koo, M., Blum, L., Black, A., Kao, L., Scalzo, F., & Kurtz, I. (2023). A comparative study of open-source large language models, GPT-4 and Claude 2: Multiple-choice test taking in nephrology. *ArXiv Preprint ArXiv:2308.04709*. <http://arxiv.org/abs/2308.04709>

- Xiong, W., Liu, J., Molybog, I., Zhang, H., Bhargava, P., Hou, R., Martin, L., Rungta, R., Sankararaman, K. A., Oguz, B., Khabsa, M., Fang, H., Mehdad, Y., Narang, S., Malik, K., Fan, A., Bhosale, S., Edunov, S., Lewis, M., ... Ma, H. (2023). Effective long-context scaling of foundation models. ArXiv Preprint ArXiv:2309.16039. <http://arxiv.org/abs/2309.16039>
- Yanto, A. F. A., & Purwani, F. (2024). Pemodelan sistem informasi pendataan alker & sarker divisi Network Area & Defa Telkom Witel Sumsel. Prosiding Seminar Nasional Teknologi Informasi & Ilmu Komputer (SEMASTER), 3(1), 132–145.
- Zhang, B., Xin, H., Fang, M., Liu, Z., Yi, B., Li, T., & Liu, Z. (2025). Traceback of poisoning attacks to retrieval-augmented generation. Proceedings of the ACM on Web Conference 2025, 2085–2097. <https://doi.org/10.1145/3696410.3714756>
- Zidan, M., Nur'aini, S., Wibowo, N. C. H., & Ulinuha, M. A. (2022). Black box testing pada aplikasi single sign on (SSO) di Diskominfo standi menggunakan teknik equivalence partitions. Walisongo Journal of Information Technology, 4(2), 127–137. <https://doi.org/10.21580/wjit.2022.4.2.12135>