

DAFTAR PUSTAKA

- [1] H. Turnip, “Penggunaan Big Data untuk Optimalisasi Pengambilan Keputusan di Sekolah,” *Jurnal Kolaboratif Sains*, vol. 7, no. 8, pp. 3138–3145, 2024, doi: 10.56338/jks.v7i8.5971.
- [2] M. Rayhan Pranandika, W. Purnomo, and S. A. Wicaksono, “Pengembangan Data Warehouse Sebagai Pendukung Pelaporan Akademik (Studi Kasus: Departemen Sistem Informasi Fakultas Ilmu Komputer Universitas Brawijaya),” *Jurnal Pengembangan Teknologi Informasi dan Ilmu Komputer*, vol. 8, no. 4, pp. 2548–964, Apr. 2024, [Online]. Available: <http://j-ptiik.ub.ac.id>
- [3] M.I. Sari and M.I.P. Nasution, “Optimalisasi Kinerja Sistem Informasi Manajemen Melalui Penerapan Database yang Efektif,” *Jurnal Penelitian Ilmu-Ilmu Sosial*, vol. 02, no. 11, 2025, doi: 10.5281/zenodo.15756165.
- [4] A. Bahaaudeen, “The Impact of the Data Warehouse on Decision Making Quality and Speed in Higher Education,” in *2023 International Conference on IT Innovation and Knowledge Discovery (ITIKD)*, Mar. 2023, pp. 1–10. doi: 10.1109/ITIKD56332.2023.10099501.
- [5] *UNDANG-UNDANG REPUBLIK INDONESIA NOMOR 14 TAHUN 2008.*
- [6] *Permendikbudristek Nomor 31 Tahun 2022_Satu Data Dikbudristek.*
- [7] D. Jean Cross Sihombing, “Academic Data Warehouse Modeling in Higher Education Using Nine-Step Design Methodology,” *Journal of Information Systems and Informatics*, vol. 4, no. 4, 2022, [Online]. Available: <http://journal-isi.org/index.php/isi>
- [8] F. S. Utomo and Z. Lubna, “Visualisasi Data Penjualan untuk Menentukan Bussiness Insight menggunakan Metabase pada Perusahaan Retail Global Sales Data,” *Sistemasi: Jurnal Sistem Informasi*, vol. 13, no. 4, pp. 2540–9719, 2024, doi: <https://doi.org/10.32520/stmsi.v13i4>.
- [9] L. Dinesh and K. G. Devi, “An efficient hybrid optimization of ETL process in data warehouse of cloud architecture,” *Journal of Cloud Computing: Advances, Systems and Applications*, vol. 13, no. 1, Dec. 2024, doi: 10.1186/s13677-023-00571-y.

- [10] S. Raj and M. Paliwal, "Higher Education Dashboard Implementation Using Data Mining and Data Warehouse: A Review Paper," *International Journal of Innovative Research in Computer Science & Technology (IJIRCST)*, vol. 10, no. 1, pp. 2347–5552, 2022, doi: <https://doi.org/10.55524ijircst.2022.10.1.19>.
- [11] A. Prahendratno *et al.*, *BUSSINESS INTELLIGENT: Pengantar Business Intelligence dalam Bisnis*. Kota Jambi: PT. Sonpedia Publishing Indonesia, 2023.
- [12] C. Shao, Y. Yang, S. Juneja, and T. GSeetharam, "IoT data visualization for business intelligence in corporate finance," *Inf. Process. Manag.*, vol. 59, no. 1, p. 102736, 2022, doi: <https://doi.org/10.1016/j.ipm.2021.102736>.
- [13] UPN "Veteran" Jawa Timur, "Sistem Informasi Riset dan Pengabdian Masyarakat (SIMARIS)." Accessed: Oct. 23, 2025. [Online]. Available: <https://simaris.upnjatim.ac.id>
- [14] UPN "Veteran" Jawa Timur, "SIMAKIN – Sistem Informasi Kekayaan Intelektual." Accessed: Oct. 23, 2025. [Online]. Available: <https://simakin.upnjatim.ac.id>
- [15] R. Kimball and M. Ross, *The Data Warehouse Toolkit: The Definitive Guide to Dimensional Modeling*, 3rd ed. New York: Wiley Computer Publishing, 2013.
- [16] K. C. Laudon and J. P. Laudon, *Management Information Systems: Managing the Digital Firm*, 13th ed. England: Pearson Education Limited, 2014.
- [17] W. H. Inmon, *Building the Data Warehouse*, 3rd ed. New York: Wiley Computer Publishing, 2002.
- [18] S. F. Anshari and S. Retno, "Penerapan Metode Nine-Step Kimball Dalam Pengolahan Data History Menggunakan Data Warehouse dan Business Intelligence," *Jurnal Ilmu Komputer*, vol. 16, no. 1, p. 69, Apr. 2023, doi: [10.24843/jik.2023.v16.i01.p07](https://doi.org/10.24843/jik.2023.v16.i01.p07).
- [19] A. Filiana, A. G. Prabawati, M. N. A. Rini, G. Virginia, and B. Susanto, "Perancangan Data Warehouse Perguruan Tinggi untuk Kinerja Penelitian

- dan Pengabdian kepada Masyarakat,” *Jurnal Teknik Informatika dan Sistem Informasi*, vol. 6, no. 2, Aug. 2020, doi: 10.28932/jutisi.v6i2.2557.
- [20] E. Turban, R. Sharda, D. Delen, D. King, and E. J. Aeronson, *Business Intelligence a Managerial Approach*, 2nd ed. London: Pearson Education, 2010.
 - [21] F. N. Hasan and I. K. Sudaryana, “Penerapan Business Intelligence & Online Analytical Processing untuk Data-Data Penelitian dan Luarannya pada Perguruan Tinggi Menggunakan Pentaho,” *Infotech: Journal of Technology Information*, vol. 8, no. 2, pp. 85–92, Nov. 2022, doi: 10.37365/jti.v8i2.143.
 - [22] J. Turnbull, *The Docker Book: Containerization is the New Virtualization*, 2nd ed. Sydney, 2018.
 - [23] Docker Inc, “Docker Documentation.” Accessed: Oct. 27, 2025. [Online]. Available: <https://docs.docker.com/>
 - [24] Metabase, “Metabase concepts.” Accessed: Oct. 23, 2025. [Online]. Available: <https://www.metabase.com/docs/latest/>
 - [25] R. Putri Nourma Budiarti, S. Sukaridhoto, U. Zuhdi, A. Rasyid, and A. Imam Sonhaji, “Implementation of Big Data Information System Using Open-Source Metabase for Civil Registration and Vital Statistics Data Visualization in Surabaya,” *International Journal Informatics Visualization*, vol. 7, no. 4, 2023, [Online]. Available: www.joiv.org/index.php/joiv
 - [26] Ian. Sommerville, *Software engineering*, 9th ed. Boston: Pearson, 2011.
 - [27] Y. Sri Rahayu, Y. Saputra, and D. Irawan, “Implementasi Metode Waterfall Pada Pengembangan Sistem Informasi Mobile E-Disarpus,” *Jurnal Sistem Informasi*, vol. 6, no. 2, pp. 523–534, 2024.
 - [28] A. Widyanoro, F. Faradisa Al Bina, T. Prayoga, R. Safei, and M. Akmal Arrasid, “Systematic Literature Review: Membandingkan Pendekatan Metode Agile dan Waterfall dalam Pengembangan Perangkat Lunak,” *Journal of Comprehensive Science*, vol. 4, no. 1, 2025.
 - [29] M. White, *Laravel: Up and Running: A Framework for Building Modern PHP Apps*, 2nd ed. Sebastopol, CA: O’Reilly Media, 2019.

- [30] A. Popov, *Laravel 10 Essentials: Build Reliable, Maintainable, and Secure PHP Web Applications Using the Laravel Framework*. Birmingham, UK: Packt Publishing, 2023.
- [31] Next.js, “What is Next.js.” Accessed: Oct. 23, 2025. [Online]. Available: <https://nextjs.org/docs>
- [32] D. Choy, *Full-Stack React, TypeScript, and Node: Build Cloud-Ready Web Applications Using React 17, with Hooks and GraphQL*. Birmingham, UK: Packt Publishing, 2023.
- [33] Tailwind CSS, “Documentation: Utility-First CSS Framework.” Accessed: Oct. 23, 2025. [Online]. Available: <https://tailwindcss.com/docs>
- [34] PostgreSQL Global Development Group, “What is PostgreSQL?” Accessed: Oct. 23, 2025. [Online]. Available: <https://www.postgresql.org/docs/current/intro-what-is.html>
- [35] S. V. Salunke and A. Ouda, “A Performance Benchmark for the PostgreSQL and MySQL Databases,” *Future Internet*, vol. 16, no. 10, Oct. 2024, doi: 10.3390/fi16100382.
- [36] M. Putri, A. Ginting, and A. S. Lubis, “Pengujian Aplikasi Berbasis Web Data Ska Menggunakan Metode Black Box Testing,” *FEBRUARI*, vol. 2, no. 1, pp. 41–48, 2024, doi: 10.55537/cosmic.
- [37] N. A. Vanesha, R. Rizky, and A. Purwanto, “Comparison Between Usability and User Acceptance Testing on Educational Game Assessment,” *Jurnal Sisfokom (Sistem Informasi dan Komputer)*, vol. 13, no. 2, pp. 210–215, Jun. 2024, doi: 10.32736/sisfokom.v13i2.2099.
- [38] A. Risma, H. K. Saputra, A. Hadi, and D. Novaliendry, “Penerapan User Acceptance Testing (UAT) pada Pengujian Sistem Informasi Manajemen Operasional Studio Foto Berbasis Client-Server,” *Journal of Authentic Research*, vol. 5, no. 2, pp. 2396–2410, May 2026, doi: 10.36312/svscqg16.
- [39] A. Sorour and A. S. Atkins, “Big data challenge for monitoring quality in higher education,” *Journal of Electronic Sciences and Technology*, Jan. 2024, doi: <https://doi.org/10.1016/j.jnlest.2024.100233>.
- [40] M. K. Hidayat, D. Sugiarto, R. Fitriana, and Y.-C. Liang, “Business intelligence system model to measure the performance of lecturers’ scientific

- publications,” *TELKOMNIKA (Telecommunication Computing Electronics and Control)*, vol. 23, no. 4, p. 954, Aug. 2025, doi: 10.12928/telkomnika.v23i4.26221.
- [41] B. Uddin, M. L. Wijayadi, A. Zahra Maharani, K. Wafa, and A. Barren, “Analisis Data Warehouse Pada Perpustakaan Universitas XYZ Untuk Efisiensi Manajemen Menggunakan Metode Kimball 4 Langkah,” *Jurnal Informatika: Jurnal pengembangan IT*, vol. 10, no. 2, pp. 2477–5126, 2025, doi: 10.30591/jpit.v9ix.xxx.
- [42] I. P. A. E. Pratama and I Komang Wahyu Hadi Permana, “Analisa Pola Penjualan Berbasis Data Warehouse Menggunakan Metode ETL dan OLAP (Studi Kasus: Restoran Khayangan Kuliner),” *TEMATIK*, vol. 10, no. 1, pp. 124–130, Jun. 2023, doi: 10.38204/tematik.v10i1.1317.
- [43] S. Sugiyono, *Metode Penelitian Kuantitatif, Kualitatif, dan R&D*. Bandung: Alfabeta, 2013.
- [44] R. S. Pressman, *Software Engineering: A Practitioner’s Approach*, 7th ed. New York: McGraw-Hill Education, 2010.
- [45] M. Casters, R. Bouman, and J. van dongen, *Pentaho Kettle Solutions: Building Open Source ETL Solutions with Pentaho Data Integration*. Indianapolis: Wiley, 2010.
- [46] *Advance in Computers*, 1st ed., vol. 112. Academic Press, 2019.
- [47] L. Ehrlinger and W. Wöß, “A Survey of Data Quality Measurement and Monitoring Tools,” Mar. 31, 2022, *Frontiers Media S.A.* doi: 10.3389/fdata.2022.850611.