

DAFTAR PUSTAKA

- Abadi, M., Agarwal, A., Barham, P., Brevdo, E., Chen, Z., Citro, C., ... & Zheng, X. (2015). *TensorFlow: Large-scale machine learning on heterogeneous systems*.
- Adamopoulou, E., & Moussiades, L. (2020). *Chatbots: History, technology, and applications*. *Machine Learning with Applications*, 2, 100006.
- Adinugroho, R. (2022). Perbandingan Rasio Split Data Training Dan Data Testing Menggunakan Metode Lstm Dalam Memprediksi Harga Indeks Saham Asia (Bachelor's thesis, Fakultas Sains dan Teknologi UIN Syarif Hidayatullah Jakarta).
- Almustaqim, A., & Toscani, A. N. (2022). *Perancangan Sistem Chatbot Sebagai Virtual Assistant Pada PT. Everbright Jambi*. *SKANIKA: Sistem Komputer dan Teknik Informatika*, 5(2), 228-239.
- Bagheri, R. (2020). *An Introduction to Deep Feedforward Neural Networks* (Hitting the headline web page) [Online] (Updated 21 July 2020) Available at: <https://towardsdatascience.com/an-introduction-to-deep-feedforward-neural-networks-1af281e306cd> [Accessed 04 May 2024].
- Bala Bisandu, D., Salih Homaid, M., Moulitsas, I., & Filippone, S. (2021, November). *A deep feedforward neural network and shallow architectures effectiveness comparison: Flight delays classification perspective*. In *Proceedings of the 5th International Conference on Advances in Artificial Intelligence* (pp. 1-10).
- Barrett, P., Hunter, J., Miller, J. T., Hsu, J. C., & Greenfield, P. (2005, December). *matplotlib--A Portable Python Plotting Package*. In *Astronomical data analysis software and systems XIV* (Vol. 347, p. 91).
- Bassett, L. (2015). *Introduction to JavaScript object notation: a to-the-point guide to JSON*. " O'Reilly Media, Inc."
- Bharati. (2024). *Latest Guide on Confusion Matrix for Multi-Class Classification* (Hitting the headline web page) [Online] (Updated 13 February 2024) Available at: <https://www.analyticsvidhya.com/blog/2021/06/confusion-matrix-for-multi-class-classification/> [Accessed 12 May 2024].
- Cahya Utama, R., & Titi Komalasari, R. (2021). *APLIKASI CHATBOT BERBASIS TEKS MENGGUNAKAN ALGORITMA NAIVE BAYES CLASSIFIER FAQ GRABADS*. *STRING* (Satuan Tulisan Riset dan Inovasi Teknologi), 6 (1).
- Chapman, P., Clinton, J., Kerber, R., Khabaza, T., Reinartz, T., Shearer, C. and Wirth, R. (2000). *CRISP-DM 1.0 - Step-by-step data mining guide*, CRISP-DM Consortium.

- Chadha, A. (2020). *Deep Learning Architectures Comparative Analysis* (Hitting the headline web page) [Online] (Updated 2020) Available at: <https://aman.ai> [Accessed 05 May 2024].
- Chen, C. H., Lai, J. P., Chang, Y. M., Lai, C. J., & Pai, P. F. (2023). *A Study of Optimization in Deep Neural Networks for Regression*. *Electronics*, 12(14), 3071.
- Chicho, B. T., & Sallow, A. B. (2021). *A comprehensive survey of deep learning models based on Keras framework*. *Journal of Soft Computing and Data Mining*, 2(2), 49-62.
- Elholiqi A., & Musdholifah A. (2020). *Chatbot in Bahasa Indonesia Using NLP to Provide Banking Information*. *IJSS (Indonesian Journal of Computing and Cybernetics System)*. 14(1). 91-102
- Endra, R. Y., Aprilinda, Y., Dharmawan, Y. Y., & Ramadhan, W. (2021). *Analisis Perbandingan Bahasa Pemrograman PHP Laravel dengan PHP Native pada Pengembangan Website*. *EXPERT: Jurnal Manajemen Sistem Informasi Dan Teknologi*, 11(1), 48. <https://doi.org/10.36448/expert.v11i1.2012>
- Fadli, M.F., Buntoro, G.A. and Masykur, F. (2022). *PENERAPAN ALGORITMA NEURAL NETWORK PADA CHATBOT PMB UNIVERSITAS MUHAMMADIYAH PONOROGO BERBASIS WEB*. *JuSiTik: Jurnal Sistem dan Teknologi Informasi Komunikasi*, 6 (1), pp.13-22.
- Fambayun, F. D. (2022). *Penerapan algoritma neural network pada chatbot bahasa Jawa tingkat tutur krama alus*. *Jurnal Teknik Informatika*, 14(1), 40-46.
- Fatima, N. (2020). *Enhancing performance of a deep neural network: A comparative analysis of optimization algorithms*.
- Faurina, R., Gazali, M., & Herani, I. (2023). *Implementasi Deep Feed-Forward Neural Network pada Perancangan Chatbot Berbasis Web di UPPIK RSUD M. YUNUS*. *Komputika : Jurnal Sistem Komputer*, 12(2), 11-20. <https://doi.org/10.34010/komputika.v12i2.8914>.
- Faurina, R., Revanza, D., & Sopran, A. (2022). *Pengembangan Chatbot Menggunakan Deep Feed-Forward Neural Network sebagai Pusat Layanan Informasi Akademik*. *Jurnal Eksplora Informatika*, 11(2), 120-129.
- Goldsborough, P. (2016). *A tour of tensorflow*. arXiv preprint arXiv:1610.01178.
- Guntoro, G., Costaner, L., and Lisawita, L. (2020). *Aplikasi Chatbot untuk Informasi dan Akademik Kampus Berbasis Artificial Intelligence Markup Language (AIML)*. *Digital Zone: Jurnal Teknologi Informasi Dan Komunikasi*, 11 (2), pp. 291-300.

- Harris, C. R., Millman, K. J., Van Der Walt, S. J., Gommers, R., Virtanen, P., Cournapeau, D., ... & Oliphant, T. E. (2020). *Array programming with NumPy*. *Nature*, 585(7825), 357-362.
- Harjanta, A. T. J. (2015). *Preprocessing text untuk meminimalisir kata yang tidak berarti dalam proses text mining*. *Jurnal Informatika Upgris*, 1(1 Juni).
- Hormansyah, D. S., & Utama, Y. P. (2018). *Aplikasi Chatbot Berbasis Web Pada Sistem Informasi Layanan Publik Kesehatan Di Malang Dengan Menggunakan Metode Tf-Idf*. *Jurnal Informatika Polinema*, 4 (3), pp. 224.
- Jin, M., Liao, Q., Patil, S., Abdulraheem, A., Al-Shehri, D., & Glatz, G. (2022). *Hyperparameter tuning of artificial neural networks for well production estimation considering the uncertainty in initialized parameters*. *ACS omega*, 7(28), 24145-24156.
- Jensen, S. H., Møller, A., & Thiemann, P. (2009). *Type analysis for JavaScript*. In *Static Analysis: 16th International Symposium, SAS 2009, Los Angeles, CA, USA, August 9-11, 2009*. Proceedings 16 (pp. 238-255). Springer Berlin Heidelberg.
- JSON Official Website. (2023). *Introducing JSON* (Hitting the headline web page) [Online] (Updated 31 December 2023) Available at: <https://www.json.org/json-en.html> [Accessed 31 December 2023].
- Katryn, R.G. (2020). *Text Preprocessing: Tahap Awal dalam Natural Language Processing (NLP)* (Hitting the headlines article) [Online] (Updated 28 Sep 2020) Available at: <https://medium.com/mandiri-engineering/text-preprocessing-tahap-awal-dalam-natural-language-processing-nlp-bc5fbb6606a> [Accessed 14 December 2023].
- Kristio, K., Widiyaningsih, W., & Lailasari, M. (2022). *DESIGNING CLEANERS WEBSITE FOR HELMET CLEANSING AND HELMET CLEANSING PRODUCT SELLING USING PHP AND MYSQL*. *Jurnal Teknik Informatika (JUTIF)*, 3(2), 193-200.
- Laaziri, M., Benmoussa, K., Khouilji, S., Larbi, K. M., & El Yamami, A. (2019). *A comparative study of laravel and symfony PHP frameworks*. *International Journal of Electrical and Computer Engineering*, 9(1), 704-712.
- Mahendra, R., & Kamayani, M. (2023). *Menerapkan Algoritma Neural Network Pada Chatbot Mengenai Pariwisata Di Provinsi Bangka Belitung*. *J-SAKTI (Jurnal Sains Komputer dan Informatika)*, 7(2), 698-709.
- Milecia. (2019). *Difference Between Development, Stage, And Production* (Hitting the headlines article) [Online] (Updated 27 Aug 2019) Available at: <https://dev.to/flippedcoding/difference-between-development-stage-and-production-d0p> [Accessed 27 May 2024].

- Muliyono, M. (2021). *Identifikasi Chatbot dalam Meningkatkan Pelayanan Online Menggunakan Metode Natural Language Processing* (Doctoral dissertation, Universitas Putra Indonesia YPTK).
- Nugraha, K. A., & Sebastian, D. (2021). *Chatbot Layanan Akademik Menggunakan K-Nearest Neighbor*. *Jurnal Sains dan Informatika*, 7(1), 11-19.
- Nwankpa, C., Ijomah, W., Gachagan, A., & Marshall, S. (2018). *Activation functions: Comparison of trends in practice and research for deep learning*. arXiv preprint arXiv:1811.03378.
- Pedregosa, F., Varoquaux, G., Gramfort, A., Michel, V., Thirion, B., Grisel, O., ... & Duchesnay, É. (2011). *Scikit-learn: Machine learning in Python*. *the Journal of machine Learning research*, 12, 2825-2830.
- Putra, R. P., Pratomo, A. H., & Perwira, R. I. (2022). *Text Message Classification using Multiclass Support Vector Machine on Information Service Chatbot in the Informatics Department UPN "Veteran" Yogyakarta*. *Telematika: Jurnal Informatika dan Teknologi Informasi*, 19(3), 295-310.
- Python Official Website. (2023). *Python Software Foundation* (Hitting the headline web page) [Online] (Updated 31 December 2023) Available at: <https://www.python.org/psf-landing/> [Accessed 31 December 2023].
- Sazli, M. H. (2006). *A brief review of feed-forward neural networks*. *Communications Faculty of Sciences University of Ankara Series A2-A3 Physical Sciences and Engineering*, 50(01). https://doi.org/10.1501/commua1-2_0000000026
- Sekhar, C., & Meghana, P. S. (2020). *A study on backpropagation in artificial neural networks*. *Asia-Pacific Journal of Neural Networks and Its Applications*, 4(1), 21-28.
- Sibagariang, S., Riyadi, A., Dzikri, A., Suandi, F., Sirait, K. T., & Setiawan, F. (2021). *Prediksi Prospek Kerja Alumni Dengan Algoritma Neural Network*. *CESS (Journal of Computer Engineering, System and Science)*, 6 (1), pp. 91.
- Stauffer, M. (2023). *Laravel: Up & Running*. O'Reilly Media, Inc.
- Stobart, S., Vassileiou, M., Stobart, S., & Vassileiou, M. (2004). *Introduction to PHP*.
- Su, M. H., Wu, C. H., Huang, K. Y., Hong, Q. B., & Wang, H. M. (2017). *A chatbot using LSTM-based multi-layer embedding for elderly care*. *International Conference on Orange Technologies (ICOT)* (pp. 70-74). IEEE.
- Tala, F. Z. (2003). *A Study of Stemming Effects on Information Retrieval in Bahasa Indonesia*. M.Sc. Thesis. Master of Logic Project. Institute for Logic, Language and Computation. Universiteit van Amsterdam, The Netherlands.

- Tamizharasi, B., Livingston, L. J., & Rajkumar, S. (2020). *Building a medical chatbot using support vector machine learning algorithm*. Journal of Physics: Conference Series (Vol. 1716, No. 1, p. 012059). IOP Publishing.
- Terven, J., Cordova-Esparza, D. M., Ramirez-Pedraza, A., & Chavez-Urbiola, E. A. (2023). *Loss Functions and Metrics in Deep Learning*. arXiv preprint arXiv:2307.02694.
- University of Maryland, Baltimore County. (2024). *Career Center* (Hitting the headlines article) [Online] (Updated 2 February 2024) Available at: <https://careers.umbc.edu> [Accessed 2 February 2024].
- UPA-PKK UPN “Veteran” Jawa Timur. (2024). *Tentang Kami* (Hitting the headlines article) [Online] (Updated 2023) Available at: <https://upapkk.upnjatim.ac.id/about> [Accessed 01 February 2024]
- UPN “Veteran” Jawa Timur. (2020). *RENCANA STRATEGIS (RENSTRA) UNIVERSITAS PEMBANGUNAN NASIONAL “VETERAN” JAWA TIMUR TAHUN 2020 – 2024* (Hitting the headlines article) [Online] (Updated 29 Oct 2020) Available at: <https://www.upnjatim.ac.id/download/rencana-strategis-renstra-universitas-pembangunan-nasional-veteran-jawa-timur-tahun-2020-2024/> [Accessed 14 December 2023].
- UPN “Veteran” Jawa Timur. (2018). *Struktur Organisasi* (Hitting the headlines article) [Online] (Updated 2018) Available at: <https://www.upnjatim.ac.id/struktur-organisasi/> [Accessed 14 December 2023].
- Wang, M., & Hu, F. (2021). *The application of nltk library for python natural language processing in corpus research*. Theory and Practice in Language Studies, 11(9), 1041-1049.
- Vamsi, G. K., Rasool, A., & Hajela, G. (2020). *Chatbot: A deep neural network based human to machine conversation model*. 11th International Conference on Computing, Communication and Networking Technologies (ICCCNT) (pp. 1-7). IEEE.
- Vaswani, A., Shazeer, N., Parmar, N., Uszkoreit, J., Jones, L., Gomez, A. N., ... & Polosukhin, I. (2017). *Attention is all you need*. Advances in neural information processing systems, 30.
- Yotov, K., Hadzhikolev, E., & Hadzhikoleva, S. (2020). *Determining the Number of Neurons in Artificial Neural Networks for Approximation, Trained with Algorithms Using the Jacobi Matrix*. TEM Journal, 9(4).
- Zurairyah, T. A., Utami, D. K., & Herlambang, D. (2020). *Implementasi Chatbot Pada Pendaftaran Mahasiswa Baru Menggunakan Recurrent Neural Network*. Jurnal Ilmiah Teknologi Dan Rekayasa, 24(2), 91-101.