

DAFTAR PUSTAKA

- Adrian, D., Putra, M., & Paradita, Y. (2024). *Pengembangan Prototype Sistem Pengusir Hama Menggunakan Smart Panel Surya , Lampu UV dan Gelombang Ultrasonik Pada Perkebunan*. Vol.16, 24–30.
- Ağbulut, Ü., Gürel, A. E., & Biçen, Y. (2021). Prediction of daily global solar radiation using different machine learning algorithms: Evaluation and comparison. *Jurnal Renewable and Sustainable Energy Reviews*, Vol 135
- Ahmad, N. (2022). MATLAB/Simulink Based Instantaneous Solar Radiation Modeling, Validation and Performance Analysis of Fixed and Tracking Surfaces for the Climatic Conditions of Lahore City, Pakistan. *International Journal of Renewable Energy Development*, Vol 11(3), 608–619.
- Arumsari, N., & Pamuji, F. A. (2017). Peramalan Irradiance Cahaya Matahari pada Sel Surya untuk Memenuhi Kebutuhan Energi Listrik dengan Metode *Support Vector Regression* (SVR). *Jurnal Nasional Teknik Elektro*, 6(1), e-ISSN: 2302-2949.
- Atina, Atina, and Heru Prasetyo. "Pengamatan Lamanya Penyinaran Matahari di BMKG Kelas II Kota Palembang Menggunakan Alat Campbell Stokes." *Jurnal Penelitian Fisika Dan Terapannya (Jupiter)* 3.2 (2022): 42-47.
- Alief, R., & Nurmiati, E. (2022). Penerapan Kecerdasan Buatan Dan Teknologi Informasi Pada Efisiensi Manajemen Pengetahuan. *Jurnal Masyarakat Informatika*, Vol 13(1), 59–69.
- Angreni, I. A., Adisasmita, S. A., Ramli, M. I., & Hamid, S. (2019). Pengaruh Nilai K Pada Metode K-Nearest Neighbor (Knn) Terhadap Tingkat Akurasi Identifikasi Kerusakan Jalan. *Jurnal Rekayasa Sipil*, Vol 7(2), 63.
- Awad, M., & Khanna, R. (2015). Efficient learning machines: Theories, concepts, and applications for engineers and system designers. *Efficient Learning Machines: Theories, Concepts, and Applications for Engineers and System Designers, January 2015*, Vol 1–248. 5990-9
- Bansal, M., Goyal, A., & Choudhary, A. (2022). A comparative analysis of K-Nearest Neighbor, Genetic, Support Vector Machine, Decision Tree, and Long Short Term Memory algorithms in machine learning. *Decision Analytics Journal*, 3 November 2021, 100071.
- Bamisile, Olusola, et al. "Comparison of machine learning and deep learning algorithms for hourly global/diffuse solar radiation predictions." *International Journal of Energy Research* 46.8 (2022): 10052-

10073.

- Boateng, E. Y., Otoo, J., & Abaye, D. A. (2020). Basic Tenets of Classification Algorithms K-Nearest-Neighbor, Support Vector Machine, Random Forest and Neural Network: A Review. *Journal of Data Analysis and Information Processing*, 08(04), Vol 341–357.
- Buchanan, J. Y. (1901). Solar radiation. *Nature*, 64(1662), 456–459.
- Cahyono, B. (2016). Penggunaan Software Matrix Laboratory (Matlab) Dalam Pembelajaran Aljabar Linier. *Phenomenon : Jurnal Pendidikan MIPA*, Vol 3(1), 45–62.
- Charbuty, B., & Abdulazeez, A. (2021). Classification Based on Decision Tree Algorithm for Machine Learning. *Journal of Applied Science and Technology Trends*, Vol 2(01), 20–28.
- D. Ardiansyah, "Perbandingan Model Prediksi Radiasi Matahari Berbasis Mesin Pembelajaran Pada Stasiun Meteorologi Fatmawati Soekarno Bengkulu," *Megasains*, vol. 14, no. 1, pp. 26–32, 2023.
- Dash, R. K., Nguyen, T. N., Cengiz, K., & Sharma, A. (2023). Fine-tuned support vector regression model for stock predictions. *Neural Computing and Applications*, Vol 35(32).
- Delibasic, Tarik. "Estimating beam and diffuse solar irradiance components using multiple solar irradiance meters." (2019). *s using multiple solar irradiance meters*.
- Evita Fitri. (2023). Analisis Perbandingan Metode Regresi Linier, Random Forest Regression dan Gradient Boosted Trees Regression Method untuk Prediksi Harga Rumah. *Journal of Applied Computer Science and Technology (JACOST)*, 4(1), ISSN: 2723-1453. <https://doi.org/10.52158/jacost.491>
- Fy, Osisanwo, et al. "Supervised machine learning algorithms: classification and comparison." *International Journal of Computer Trends and Technology* 48.3 (2017): 128-138.
- Febrianti, T., & Harahap, E. (2021). Penggunaan Aplikasi MATLAB Dalam Pembelajaran Program Linear. *Jurnal Matematika*, Vol 20(1), 1–7.
- Gaskar, M., Muin, A., & Istate, D. (2021). ANALISA PENGARUH SUDUT DATANG SINAR MATAHARI TERHADAP KINERJA SOLAR CELL 50 Wp. *Jurnal Desiminasi Teknologi*, Vol 9(2).
- Ghifari, R. M. Al, Arsyad, M., & Susanto, A. (2022). Estimasi Intensitas Radiasi

- Matahari Berbasis Korelasi Angstrom di Kawasan Karst Maros TN. Bantimurung Bulusaraung. *Jurnal Fisika Flux: Jurnal Ilmiah Fisika FMIPA Universitas Lambung Mangkurat*, Vol 19(1), 77.
- Hamdanah, F. H., & Fitriana, D. (2021). Analisis Performansi Algoritma Linear Regression dengan Generalized Linear Model untuk Prediksi Penjualan pada Usaha Mikro, Kecil, dan Menengah. *Jurnal Nasional Pendidikan Teknik Informatika: JANAPATI*, 10(1), 23-32.
- Hassan, Muhammed A., et al. "Potential of four different machine-learning algorithms in modeling daily global solar radiation." *Renewable Energy* 111 (2017): 52-62.
- Herlambang, Y. D., Margana, M., Safarudin, Y. M., Yosintaska, Y., Yusarindra, N., Wibowo, R. R., & Cahya, Y. T. I. (2020). Model Alat Ukur Kecepatan Angin, Arah Angin, Dan Intensitas Radiasi Matahari. *Eksergi*, Vol 16(2), 80.
- Heryadi, Yaya, and Teguh Wahyono. "Machine learning konsep dan implementasi." *Yogyakarta: Gava Media* 57 (2020).
- Hutama, D. (2019). *Pengenalan Aplikasi Matlab*.
- Jacobus, L., Setyowati, E., Patty, E. N. S., & Bokol, F. (2023). Desain Sistem Pompa Air Tenaga Surya. *Elektriase: Jurnal Sains Dan Teknologi Elektro*, Vol 13(01), 1-8.
- JiangWei, Y., & He, X. (2023). Support vector regression model with variant tolerance. *Measurement and Control (United Kingdom)*, Vol 56(9-10).
- Joshua, Salaki Reynaldo, et al. "A Hybrid Machine Learning Approach: Analyzing Energy Potential and Designing Solar Fault Detection for an AIoT-Based Solar-Hydrogen System in a University Setting." *Applied Sciences* 14.18 (2024).
- Jumingin, J., Atina, A., Iswan, J., Haziza, N., & Ashari, B. (2022). Radiasi Gelombang Elektromagnetik Yang Ditimbulkan Peralatan Listrik Di Lingkungan Universitas PGRI Palembang. *Journal Online of Physics*, Vol 7(2), 48-53.
- Kharisma, Amrul, Satria Pinandita, and Ari Endang Jayanti. "Literature Review: Kajian Potensi Energi Surya Alternatif Energi Listrik." *Jurnal Energi Baru Dan Terbarukan* 5.2 (2024): 145-154.
- Kruzel, M., et al. "A new approach for heat transfer coefficient determination in triply periodic minimal surface-based heat exchangers." *International*

- Communications in Heat and Mass Transfer* 157 (2024).
- Kwon, Y., Kwasinski, A., & Kwasinski, A. (2019). Solar Irradiance Forecast Using *Naïve Bayes* Classifier Based on Publicly Available Weather Forecasting Variables. *Jurnal Energi*, 12(8), 1529. e-ISSN: 1996-1073.
- Latifah, R., Wulandari, E. S., & Kreshna, P. E. (2019). Model Decision Tree untuk Prediksi Jadwal Kerja menggunakan Scikit-Learn. *Seminar Nasional Sains Dan Teknologi*, 16, 1–6.
- Lestanto, Yusuf. "Modul Panduan Struktur Data Menggunakan MATLAB." (2023).
- Li, Danny HW, S. W. Lou, and Joseph C. Lam. "An analysis of global, direct and diffuse solar radiation." *Energy Procedia* 75 (2015): 388-393.
- Mahdie, M. F., Rianawati, F., Nisa, K., & Fitriani, A. (n.d.). *KLIMATOLOGI HUTAN M . Faisal Mahdie Fonny Rianawati Khairun Nisa Adistina Fitriani*.
- Mahesh, B. (2020). Machine Learning Algorithms - A Review. *International Journal of Science and Research (IJSR)*, 9(1), 381–386.
- Mandala, S., Cai Di, T., Sunar, M. S., & Adiwijaya. (2020). ECG-based prediction algorithm for imminent malignant ventricular arrhythmias using decision tree. *PLoS ONE*, 15(5), 1–20.
- Mardhiyah, R., #2, H., & #2, M. (2014). Analisis Rambatan Gelombang Elektromagnetik Dalam Fiber Optik Menggunakan Pendekatan Finite Difference Metoda Laasonen. *Pillar of Physics*, 4(November), 9–16.
- Maula, M. T. D., Santoso, F., & Ghofur, A. (2024). Identifikasi Tingkat Kematangan Buah Carica dalam Pengolahan Citra Digital dengan Menggunakan Metode Transformasi Ruang Warna HSI. *G-Tech: Jurnal Teknologi Terapan*, 8(3), 1396–1404.
- McNiff, W. T. (1950). College Physics. *Seismological Research Letters*, 21(4), 34–34.
- Mohammad Noviansyah. (2019). Pengenalan Dasar Matlab. *Pengenalan Dasar Matlab*.
- Mohindru, P., & Mohindru, P. (n.d.). *Matlab and Simulink (a basic understanding for engineers)*.
- Moler, C., & Little, J. (2020). A history of MATLAB. *Proceedings of the ACM on Programming Languages*, 4(HOPL).
- Montesinos López, O. A., Montesinos López, A., & Crossa, J. (2022). Multivariate

- Statistical Machine Learning Methods for Genomic Prediction. In *Multivariate Statistical Machine Learning Methods for Genomic Prediction*.
- Mubarak, S., I., & June, D. T. (2019). Efisiensi Penggunaan Radiasi Matahari dan Respon Tanaman Kedelai (*Glycine max* L.) terhadap Penggunaan Mulsa Reflektif. *Jurnal Agronomi Indonesia (Indonesian Journal of Agronomy)*, 46(3), 247–253.
- Mubiyn, S. N., & Ilminnafik, N. (2024). Pengukuran Intensitas Radiasi Matahari di Wilayah Kabupaten Nganjuk Tahun 2016. *Jurnal Energi Baru Dan Terbarukan*, 5(1), 20–26.
- Mukrimaa, S. S., Nurdyansyah, Fahyuni, E. F., YULIA CITRA, A., Schulz, N. D., Taniredja, T., Faridli, E. M., & Harmianto, S. (20 C.E.). Machine Learning Teori, Studi Kasus dan Implementasi Menggunakan Python. *Jurnal Penelitian Pendidikan Guru Sekolah Dasar*, 6(August), 128.
- Nikicio, A. N. (2020). *Architecting SatCom-Enabled Early Warning Systems in Indonesia*.
- Okumus, H., & Nuroglu, F. M. (2021). A random forest-based approach for fault location detection in distribution systems. *Jurnal Electrical Engineering*, Vol 103(1), 257–264.
- Parbat, Debanjan, and Monisha Chakraborty. "A python based support vector regression model for prediction of COVID19 cases in India." *Chaos, Solitons & Fractals* 138 (2020).
- Parinduri, I., & Nurhabibah Hutagalung, S. (2019). Perangkaian Gerbang Logika Dengan Menggunakan Matlab (Simulink). *JURTEKSI (Jurnal Teknologi Dan Sistem Informasi)*, Vol 5(1), 63–70.
- Pavithra, C. V, Divya, R., Bavithra, K., & Jeyashree, A. (2022). *Machine Learning for Solar Power Forecasting*. Vol 71(4), 1574–1591.
- Purwarini, D., Marjunus, R., & Syafriyadi, S. (2020). Pemantual Dan Pembiasan Gelombang Elektromagnetik Terpolarisasi-p Pada Bidang Batas Kanan Bahan Antiferomagnetik FeF₂ Di Dalam Konfigurasi Faraday. *Jurnal Fisika Indonesia*, Vol 24(1), 11.
- Putra Nasyuli Leriensyah, Lubis Imran, & Marwan Elhanafi Andi. (2023). Penerapan Model Machine Learning Algoritma Gradient Boosting dan Linear Regression Melakukan Prediksi Harga Kendaraan Bekas Application Of Machine Learning Models and Gradient Boosting Algorithms Doing Linear Regression Vehicle Price Prediction Used. *Jurnal Ilmu Komputer Dan Sistem*

- Informasi(JIRSI)*, Vol Vol 2(2), 299–310.
- Rahim, R., Pudjiastuti, L., Nastiti, S., Ekasiwi, N., & Antaryama, I. N. (2013). *Karakteristik Efikasi Cahaya Global dan Difus Berdasarkan Jenis Kondisi Langit di Indonesia. 1*, 25–31.
- Raza, M. Q., Aslam, M., Ahmad, S., & Nawaz, M. (2016). Energy analysis of photovoltaic thermal (PVT) system and calculation of convection heat losses. *Renewable and Sustainable Energy Reviews*, 59(1), 1310–1321. ISSN: 1364-0321.
- Rizqi, Muhammad, and Ahamad Faujianor. "Validitas Pengembangan Media Pembelajaran Bagan dan Audio pada Materi Wudhu." *Attractive: Innovative Education Journal* . Vol 6.3 (2024): 414-422.
- Sang1, A. I., Sutoyo2, E., & Darmawan, I. (2021). Analisis Data Mining Untuk Klasifikasi Data Kualitas Udara Dki Jakarta Menggunakan Algoritma Decision Tree Dan Support Vector Machine Data Minning Analysis for Classification of Air Quality Data Dki Jakarta Using Decision Tree Algorithn and Support Vector. *E-Proceeding of Engineering*, Vol 8(5).
- Saputra, D. (2021). RANCANG BANGUN KONTROL INVERTER SINUS PADA INSTALASI LISTRIK TENAGA SURYA DI RUMAH TANGGA (Doctoral dissertation, Universitas Islam Lamongan). *Gastronomía Ecuatoriana y Turismo Local.*, Vol 1(69), 5–24.
- Saputra, S., Widyastuti, E. A., Riantiarna, R., & Kurniawati, W. (2024). Efektivitas panel surya sebagai cadangan pengganti energi listrik skala rumahan. *Jurnal Ilmu Teknik (TEKTONIK)*, 1(2), 256–260.
- Sarker, I. H. (2021). Machine Learning: Algorithms, Real-World Applications and Research Directions. *Jurnal SN Computer Science*, 2(3), Vol 1–21.
- Sheykhmousa, M., Mahdianpari, M., Ghanbari, H., Mohammadimanesh, F., Ghamisi, P., & Homayouni, S. (2020). Support Vector Machine Versus Random Forest for Remote Sensing Image Classification: A Meta-Analysis and Systematic Review. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, Vol 13, 6308–6325.
- Sianturi, Y. (2021). Pengukuran dan Analisa Data Radiasi Matahari di Stasiun Klimatologi Muaro Jambi. *Megasains*, Vol 12(1), 40–47.
- SIBARANI, KRISMAN NP. "Analisis efisiensi output panel surya terhadap perubahan intensitas radiasi matahari pada panel surya di plts 2 kwp uhn medan." (2023).

- Sinaga, A. S., Sitio, A. S., & Sijabat, P. (2020). Pengenalan Dasar Pengkodean Secara Daring pada SMK Pemda Lubuk Pakam. *Abdimas Universal*, Vol 2(2), 95–99.
- Siregar, C. A., Siregar, A. M., & Daud, M. (2021). Pemetaan Potensi Radiasi Matahari Berdasarkan Perhitungan Matematika Di Sumatera Utara. *Seminar Nasional Teknologi Edukasi Dan Humaniora*, Vol 1, 72–77.
- Sitti Fauziah Faradilla, Hamimu, L. H., & Juarzan, L. I. (2024). Implementasi Matrix Laboratory Dalam Pengolahan Data Mikrotremor Menggunakan Metode Hvsr: Studi Kasus Di Daerah Pesisir Kecamatan Moramo. *Jurnal Rekayasa Geofisika Indonesia*, Vol 6(02), 118–134.
- Solanki, Chetan Singh. *Solar photovoltaic technology and systems: a manual for technicians, trainers and engineers*. PHI Learning Pvt. Ltd., 2013.
- Subramanian, E., Karthik, M. M., Krishna, G. P., Prasath, D. V., & Kumar, V. S. (2023). *Solar Power Prediction Using Machine Learning*. Vol 2, 1-2.
- Sudarti, S., & Laili, S. N. (2021). Analisis Intensitas Radiasi Medan Magnet Matahari. *ORBITA: Jurnal Kajian, Inovasi Dan Aplikasi Pendidikan Fisika*, Vol 7(1), 169.
- Sugito, S., & Marliyana, S. D. (2021). Uji Performa Spektrofotometer Serapan Atom Thermo Ice 3000 Terhadap Logam Pb Menggunakan CRM 500 dan CRM 697 di UPT Laboratorium Terpadu UNS. *Indonesian Journal of Laboratory*, Vol 4(2), 67.
- Sumarni, Ria Asep, and Nurfidah Dwitianti. "Pengembangan E-Modul Kalfis Matlab Gerak Vertikal Menggunakan Flip Pdf Corporate Edition." *Seminar Nasional Riset dan Inovasi Teknologi (SEMNAS RISTEK)*. Vol. 6. No. 1. 2022.
- Syaiful Alim, M., Thamrin, S., & Laksmono W., R. (2023). Pemanfaatan Pembangkit Listrik Tenaga Surya sebagai Alternatif Ketahanan Energi Nasional Masa Depan. *Jurnal Pengabdian Kepada Masyarakat Nusantara*, Vol 4(3), 2427–2435.
- Teknik, J. I., Widyastuti, E. A., Riantiarna, R., Kurniawati, W., & Surya, P. (2024). *Efektivitas Panel Surya Sebagai Cadangan Pengganti*. Vol 1(2), 256–260.
- Tjolleng, A. (2018). Buku Pengantar pemrograman MATLAB: Panduan praktis belajar MATLAB. *ReasearchGate*, August, 1–6.
- Utami, Sri, and Aceng Daud. "PENGARUH TEMPERATUR PANEL SURYA TERHADAP EFISIENSI PANEL SURYA: Sistem Monitoring menggunakan

- Internet of Things (IoT)." *Jurnal Teknik Energi* 11.1 (2021): 7-10.
- Vanfretti, L., & Arava, V. S. N. (2020). Decision tree-based classification of multiple operating conditions for power system voltage stability assessment. *International Journal of Electrical Power and Energy Systems*, 123.
- Ventiano, Djunaedy, E., & Amaliyah, E. (2019). Perhitungan Intensitas Radiasi Matahari Berdasarkan Pola Sebaran Awan Menggunakan Metode Vector Regression (SVR). *E-Proceeding of Engineering*, Vol 6(2), 5343–5350.
- Viet, Tran Ngoc, et al. "The Naïve Bayes algorithm for learning data analytics." *Indian Journal of Computer Science and Engineering* Vol 12.4 (2021): 1038-1043.
- Wibowo, B. W., Deo, S., & Hutagalung, G. (2022). *KURVA T-X*.
- Widodo, Alfian Zainal Macfud Sigid, Abdi Pandu Kusuma, and Wahyu Dwi Puspitasari. "Analisis algoritma naive bayes classifier (nbc) pada klasifikasi tingkat minat barang di toko violet cell." *Jati (Jurnal Mahasiswa Teknik Informatika)* Vol 7.1 (2023): 87-4
- Woods, T. N., Harder, J. W., Kopp, G., & Snow, M. (2022). Solar-Cycle Variability Results from the Solar Radiation and Climate Experiment (SORCE) Mission. *Solar Physics*, Vol 297(4).
- Zhang, Chunxiao, et al. "An hourly solar radiation prediction model using eXtreme gradient boosting algorithm with the effect of fog-haze." *Jurnal Energy and Built Environment* 6.1 (2025): 18-26