

DAFTAR PUSTAKA

- Akash, M. S. H., & Rehman, K. (2020). *Essentials of pharmaceutical analysis* (pp.29-56). Singapore:: Springer.
- Alnuaimi, A. F. A. H., & Albaldawi, T. H. K. (2024). An overview of machine learning classification techniques. *BIO Web of Conferences*, 97. <https://doi.org/10.1051/bioconf/20249700133>
- Alzoman, R. M., & Alenazi, M. J. F. (2021). A Comparative Study of Traffic Classification Techniques for Smart City Networks. *Sensors*, 21(14), 4677. <https://doi.org/10.3390/s21144677>
- Amrullah, Sungkono, & Prastiantio, E. (2018). Analisis Pengaruh Penggunaan Bahan Bakar Premium dan Pertamina RON 92 terhadap Prestasi Mesin. *Teknologi*, 18(1), 17.
- Anam, M. K., Pikir, B. N., & Firdaus, M. B. (2021). Penerapan Naïve Bayes Classifier, K-Nearest Neighbor (KNN) dan Decision Tree untuk Menganalisis Sentimen pada Interaksi Netizen dan Pemerintah. *MATRIK : Jurnal Manajemen, Teknik Informatika Dan Rekayasa Komputer*, 21(1), 139–150. <https://doi.org/10.30812/matrik.v21i1.1092>
- Asimellis, G. (2020). *Introduction to Optics: Lectures in Optic, Volume 1* (Vol. 1).
- Barea-Sepúlveda, M., Ferreiro-González, M., Calle, J. L. P., Barbero, G. F., Ayuso, J., & Palma, M. (2022). Comparison of different processing approaches by SVM and RF on HS-MS eNose and NIR Spectrometry data for the discrimination of gasoline samples. *Microchemical Journal*, 172. <https://doi.org/10.1016/j.microc.2021.106893>
- Biaktluanga, L., Lalhruaitluanga, J., Lalramnghaka, J., & Thanga, H. H. (2024). Analysis of gasoline quality by ATR-FTIR spectroscopy with multivariate techniques. *Results in Chemistry*, 8. <https://doi.org/10.1016/j.rechem.2024.101575>
- Chen, Z. (2024). Application of UV-vis spectroscopy in the detection and analysis of substances. *Transactions on Materials, Biotechnology and Life Sciences*, 3, 131–136. <https://doi.org/10.62051/mw4daz69>
- Dadi, M., & Yasir, M. (2022). Spectroscopy and Spectrophotometry: Principles and Applications for Colorimetric and Related Other Analysis. In *Colorimetry*. IntechOpen. <https://doi.org/10.5772/intechopen.101106>
- Dara, S., & Tumma, P. (2018). Feature Extraction By Using Deep Learning: A Survey. 2018 Second International Conference on Electronics, Communication

and Aerospace Technology (ICECA), 1795–1801.
<https://doi.org/10.1109/iceca.2018.8474912>

Dubey, R., Kumar, A., & Kumar Gupta, B. (2024). A Review of Uv-Visible Spectroscopy: Techniques and Applications. *International Journal Of Novel Research And Development*, 9(10), 412–414.

Elisabeth, G., Rahma Salsa Bilah, Ardini, S. N., Agustina, N., & Rismayadi, D. A. (2023). Klasifikasi Berita Palsu Kenaikan Harga Bahan Bakar Minyak (BBM) Menggunakan Algoritma Support Vector Machine (SVM). *Jurnal Nasional Riset, Aplikasi Dan Teknik Informatika*, 5(2), 104–109.
<https://doi.org/10.53580/naratif.v5i2.188>

Ernawati, S., & Wati, R. (2018). Penerapan Algoritma K-Nearest Neighbors Pada Analisis Sentimen Review Agen Travel. *Jurnal Khastulistiwa Informatika*, VI (1). <https://www.trustpilot.com/categories/tr>

Faridah, N. (2018). *Mengenal Lebih Dekat dengan Cahaya dan Warna*. Penerbit LeutikaPrio.

Feng, P., Wu, N., Liu, J., & Liu, L. (2023). CMOS image sensors in ISSCC 2023. *Journal of Semiconductors*, 44. <https://doi.org/10.1088/1674-4926/44/4/040202>

Foroughi, B., Shahrrouzi, J. R., & Nemati, R. (2021). Detection of Gasoline Adulteration Using Modified Distillation Curves and Artificial Neural Network. *Chemical Engineering and Technology*, 44(3), 527–534.
<https://doi.org/10.1002/ceat.202000217>

Fossum, E. (2020). The Invention of CMOS Image Sensors: A Camera in Every Pocket. *2020 Pan Pacific Microelectronics Symposium (Pan Pacific)*, 1-6. <https://doi.org/10.23919/PanPacific48324.2020.9059308>

Fragkoulis, N., Archontaki, G., Karavasilis, C., Velegrakis, M., & Samartzis, P. C. (2023). Fuel in Fuel Adulteration investigated with Optical 2 Spectroscopy & Chemometrics. <https://ssrn.com/abstract=4606435>

Gotor, R., Bell, J., & Rurack, K. (2019). Tailored fluorescent solvatochromic test strips for quantitative on-site detection of gasoline fuel adulteration. *Journal of Materials Chemistry C*, 7(8), 2250–2256. <https://doi.org/10.1039/c8tc04818e>

Goyal, P. (2022). A Review on Analysis of K-Nearest Neighbor Classification Machine Learning Algorithms based on Supervised Learning. *International Journal of Engineering Trends and Technology - IJETT*; Seventh Sense Research Group SSRG. <https://ijettjournal.org/archive/ijett-v70i7p205>

- Haviluddin, Iqbal, M., Gubtha Mahendra Putra, Novianti Puspitasari, Hario Jati Setyadi, Felix Andika Dwiyanto, Aji Prasetya Wibawa, & Alfred, R. (2020). *A Performance Comparison of Euclidean, Manhattan and Minkowski Distances in K-Means Clustering*. <https://doi.org/10.1109/icsitech49800.2020.9392053>
- Isworo, H., Artika, K. D., Syahyuniar, R., Persada, A. A. B., Lingga, Y. M., Musthofa, I., Syaief, A. N., & Kurniawan, R. B. (2022). Pengaruh Campuran Bahan Bakar Pertalite RON 90 dan Pertamina RON 92 Terhadap Nilai Torsi, Daya dan Emisi Gas Buang Sepeda Motor 150CC. *Elemen: Jurnal Teknik Mesin*, 9(2), 126–130. <https://doi.org/10.34128/je.v9i2.202>.
- Janiesch, C., Zschech, P., & Heinrich, K. (2021). Machine learning and deep learning. *Electronic Markets*, 31, 685–695. <https://doi.org/10.1007/s12525-021-00475-2/Published>
- Jasman, T. Z., Hasmin, E., Sunardi, Susanto, C., & Musu, W. (2022). Perbandingan Logistic Regression, Random Forest, dan Perceptron pada Klasifikasi Pasien Gagal Jantung. *CSRID (Computer Science Research and Its Development Journal)*, 14(3), 271–286. <https://doi.org/10.22303/csrid.14.3.2022.271-286>
- Kementerian ESDM RI - Publication - Handbook Of Energy & Economic Statistics Of Indonesia (HEESI). (2020). [Esdm.go.id. https://www.esdm.go.id/en/publication/handbook-of-energy-economic-statistics-of-indonesia-heesi](https://www.esdm.go.id/en/publication/handbook-of-energy-economic-statistics-of-indonesia-heesi)
- Khan, M. Y., Qayoom, A., Nizami, M. S., Siddiqui, M. S., Shaukat Wasi, & Syed. (2021). Automated Prediction of Good Dictionary EXamples (GDEX): A Comprehensive Experiment with Distant Supervision, Machine Learning, and Word Embedding-Based Deep Learning Techniques. *Complexity*, 2021(1). <https://doi.org/10.1155/2021/2553199>
- Khasanah, I. ., A Marpaung, M. ., & Fahdiran , R. (2019). Analisis Kandungan Unsur Pada Emisi Gas Buang Kendaraan Bermotor Bahan Bakar Bensin Premium, Pertalite RON 90, dan Pertamina RON 92 Menggunakan Teknik Laser-Induced Breakdown Spectroscopy (Libs). *Prosiding Seminar Nasional Fisika (E-JOURNAL)*, 8, SNF2019–PA. <https://doi.org/10.21009/03.SNF2019.02.PA.22>
- Khouma, O., Diop, I., Fall, P. A., Ndiaye, M. L., Farssi, S. M., Oussamatou, A. M., & Diouf, B. (2019). Novel Classification Method of Spikes Morphology in EEG Signal Using Machine Learning. *Procedia Computer Science*, 148, 70–79. <https://doi.org/10.1016/j.procs.2019.01.010>
- Kirasich, K., Smith, T., & Sadler, B. (2018). Random Forest vs Logistic Regression: Binary Classification for Heterogeneous Datasets.

- Komang, M. G. A., Surya, M. N., & Ratna, A. N. (2019). Human Activity Recognition using Skeleton Data and Support Vector Machine. *Journal of Physics: Conference Series*, 1192(1). <https://doi.org/10.1088/1742-6596/1192/1/012044>
- Latuihamallo, M. R., Tentua, B. G., & Simanjuntak, A. (2023). Identifikasi Campuran BBM Menggunakan Sensor Warna Tcs3200. *JURNAL ISOMETRI*, 2(2).
- Leal, A. L., Silva, A. M. S., Ribeiro, J. C., & Martins, F. G. (2020). Using Spectroscopy and Support Vector Regression to Predict Gasoline Characteristics: A Comparison of 1H NMR and NIR. *Energy and Fuels*, 34(10), 12173–12181. <https://doi.org/10.1021/acs.energyfuels.0c01889>
- Li, G., Zhao, F., Wang, Z., & Chen, Z. (2023). The development and application of CMOS image sensor. *Applied and Computational Engineering*. <https://doi.org/10.54254/2755-2721/7/20230460>
- Li, K., Zhang, C., Du, B., Song, X., Li, Q., & Zhang, Z. (2022). Selection of the Effective Characteristic Spectra Based on the Chemical Structure and Its Application in Rapid Analysis of Ethanol Content in Gasoline. *ACS Omega*, 7(23), 20291–20297. <https://doi.org/10.1021/acsomega.2c02282>
- Lim, Y.-K., Kang, B.-S., Lee, B.-O.-M., Park, S.-H., Park, J.-M., Go, Y.-H., Kim, S.-T., Kang, D.-H., & Manager, A. (2021). Tribology and Lubricants Analysis of Components to Determine Illegal Premium Gasoline. *Tribology and Lubricants*, 37(6), 232–239. <https://doi.org/10.9725/kts.2021.37.6.232>
- Mabood, F., Gilani, S. A., Albroumi, M., Alameri, S., al Nabhani, M. M. O., Jabeen, F., Hussain, J., Al-Harrasi, A., Boqué, R., Farooq, S., Hamaed, A. M., Naureen, Z., Khan, A., & Hussain, Z. (2017). Detection and estimation of Super premium 95 gasoline adulteration with Premium 91 gasoline using new NIR spectroscopy combined with multivariate methods. *Fuel*, 197, 388–396. <https://doi.org/10.1016/j.fuel.2017.02.041>
- Maldonado, M., Barreiro, P., Gutiérrez, R., & Vergara, G. (2018). Mid- infrared uncooled sensor for the identification of pure fuel, additives and adulterants in gasoline. *Fuel Processing Technology*, 171, 287–292. <https://doi.org/10.1016/j.fuproc.2017.09.018>
- Mangeswuri, D. R. (2022, April). Kenaikan Harga Bahan Bakar Minyak Pertamina RON 92 dan Strategi. *INFO Singkat*, 14, 13–18.
- Maridjo, I., Yuliyani, A. R., Teknik, J., Energi, K., & Bandung, P. N. (2019). Pengaruh Pemakaian Bahan Bakar Premium, Pertalite RON 90 dan Pertamina RON 92 Terhadap Kinerja Motor 5 Tak. *Teknik Energi*, 9(1), 75.

- Morris, R. (2015). Spectrophotometry. *Current Protocols Essential Laboratory Techniques*, 11(1), 2-1.
- MyPertamina. (2024). Mypertamina.id. <https://mypertamina.id/fuels-harga>
- Nix, E., Fleeman, N., Lorenzetti, F., Lewis, J., Shen, G., Abebe, L., Li, Y., Xing, R., Maden, M., Duarte, R., Bresnahan, R., Williams, K. N., Adair-Rohani, H., Pope, D., & Puzzolo, E. (2022). Health effects of liquid and gaseous fuels for household energy use: systematic evidence mapping. In *Environmental Research Letters* (Vol. 17, Issue 12). Institute of Physics. <https://doi.org/10.1088/1748-9326/aca1d2>
- Setuningsih, N. (2024, March 28). Polisi Tangkap 5 Tersangka Pengoplos BBM Peralite RON 90 Jadi Pertamina RON 92. KOMPAS.com; Kompas.com. [https://nasional.kompas.com/read/2024/03/28/18061371/polisi-tangkap-5-tersangka-pengoplos-bbm-pertalite RON 90-jadi-pertamax RON 92#google_vignette](https://nasional.kompas.com/read/2024/03/28/18061371/polisi-tangkap-5-tersangka-pengoplos-bbm-pertalite-ron-90-jadi-pertamax-ron-92#google_vignette)
- Suhendar, H., Iswanto, B., Pratama, M., Silambi, M., Triyana, K., & Santoso, I. (2024). *Webcam Based Visible Light Spectrometer for Accurate Honey Adulteration Detection Using Variational Autoencoder and Bayesian Neural Network*. <https://doi.org/10.2139/ssrn.5293298>
- Sutoyo, I. (2018). Implementasi Algoritma Decision Tree Untuk Klasifikasi Data Peserta Didik. *Jurnal Pilar Nusa Mandiri*, 14(2), 217–217. <https://doi.org/10.33480/pilar.v14i2.926>
- Pamungkas, M., Hafiddudin, H., & Rohmah, Y. S. (2015). Perancangan dan realisasi alat pengukur intensitas cahaya. *ELKOMIKA: Jurnal Teknik Energi Elektrik, Teknik Telekomunikasi, & Teknik Elektronika*, 3(2), 120–132.
- Penner, M. H. (2017). *Ultraviolet, Visible, and Fluorescence Spectroscopy* (pp. 89–106). https://doi.org/10.1007/978-3-319-45776-5_7
- Puspawan, A., Supardi, N. I., Suandi, A., Samosir, H. R., & Indarto. (2021). The effect of bioethanol mixture of raw coconut roomie (*Cocos nucifera*) with Pertamina RON 92 (RON 92) and Peralite RON 90 (RON 90) fuels on the performance of a gasoline motor. *IOP Conference Series: Earth and Environmental Science*, 926(1), 012035. <https://doi.org/10.1088/1755-1315/926/1/012035>
- Ronando, E., & Sugiono. (2019). Sistem Konversi Ucapan Kata Ke Teks Menggunakan Support Vector Machine: Speech Word Recognition to Text Converter Using Support Vector Machine. *Jurnal Teknologi Dan Terapan Bisnis*, 2(2), 1–8.

- Silbaqolbina, Y. Z., & Najicha, F. U. (2022). Kebijakan Pemerintah Dalam Menaikkan Harga Bahan Bakar Minyak Serta Dampaknya Bagi Masyarakat. *Syntax Fusion*, 2(6), 608–609.
- Silva, N. C. da, Pimentel, M. F., Honorato, R. S., Talhavini, M., Maldaner, A. O., & Honorato, F. A. (2015). Classification of Brazilian and foreign gasolines adulterated with alcohol using infrared spectroscopy. *Forensic Science International*, 253, 33–42. <https://doi.org/10.1016/j.forsciint.2015.05.011>
- Sukhaemi, A., Sumarli, S., & Widiyanti, W. (2016). Pengaruh Variasi Komposisi Campuran Bahan Bakar Premium Dengan Pertamina RON 92 92 Terhadap Daya dan Emisi Gas Buang Pada Honda Vario Techno 125. *Jurnal Teknik Mesin*, 24(1).
- Supian, A., Tri Revaldo, B., Marhadi, N., Rahmaddeni, & Efrizoni, L. (2024). Penerapan SVM dan Word2Vec untuk Analisis Sentimen Ulasan Pengguna Aplikasi DANA. *Jurnal Ilmiah Komputasi*, 23(3), 321–332. <https://doi.org/10.32409/jikstik.23.3.3642>
- Somantri, O., Wiyono, S., & Dairoh, D. (2016). Metode K-Means untuk Optimasi Klasifikasi Tema Tugas Akhir Mahasiswa Menggunakan Support Vector Machine (SVM). *Scientific Journal of Informatics*, 3(1), 34–45. <https://doi.org/10.15294/sji.v3i1.5845>
- Tharwat, A. (2018). Classification assessment methods. *Applied Computing and Informatics*, 17(1), 168–192. <https://doi.org/10.1016/j.aci.2018.08.003>
- Tosato, F., Barros, E. V., Cunha, D. A., Santos, F. D., Thayná Corrêa, Nunes, A., Jastrow, I., Silverol, M. A., Pinheiro, L. U., Seabra, A. C., Filgueiras, P. R., Neto, Á. C., Wang, L., Ferreira, E. C., & Wanderson Romão. (2021). Analysis of Fuels by Photometry, Portable NIRS And 1H NMR - A Comparison with Standard Techniques. Figshare. <https://doi.org/10.6084/u002Fm9.figshare.14278798.v1>
- Tricha, A., & Moussaid, L. (2024). Evaluating machine learning models for precipitation prediction in Casablanca City. *Indonesian Journal of Electrical Engineering and Computer Science*, 35(2), 1325. <https://doi.org/10.11591/ijeecs.v35.i2.pp1325-1332>
- Udo, G. J., Awaka-Ama, J. J., Uwanta, E. J., Ekwere, I. O., & Chibueze, I. R. (2020). Comparative Analyses of Physicochemical Properties of Artisanal Refined Gasoline and Regular Automotive Gasoline. *Frontiers in Chemistry*, 8. <https://doi.org/10.3389/fchem.2020.00753>
- Vempatapu, B. P., Tripathi, D., Kumar, J., & Kanaujia, P. K. (2019). Determination of kerosene as an adulterant in diesel through chromatography and high-

resolution mass spectrometry. *SN Applied Sciences*, 1(6).
<https://doi.org/10.1007/s42452-019-0637-7>

Vidushi, Agarwal, M., & Rajoria, R. (2019). *Analysis of Various Classification Methods*. Institute of Electrical and Electronics Engineers.

Wardoyo, D A Wulandari, Firdaus, R., & Eko Arif Syaefudin. (2023). Effect of Storage Time of Boosted Pertalite RON 90 Fuel on Its Physical Properties to Improve Performance on a Single Cylinder 108.2 cc Petrol Engine. *Evergreen*, 10(3), 1991–1996. <https://doi.org/10.5109/7151763>

Wijaya, R. P., Rouf, A., & Supardi, T. W. (2019). Klasifikasi Tingkat Kemurnian Bahan Bakar Minyak Berdasarkan Cepat Rambat Gelombang Menggunakan Algoritma K-Nearest Neighbor. *IJEIS (Indonesian Journal of Electronics and Instrumentation Systems)*, 9(2), 161. <https://doi.org/10.22146/ijeis.49660>

Wijoyo, A., Saputra, A. Y., Ristanti, S., Sya'Ban, S. R., Amalia, M., & Febriansyah, R. (2024). Pembelajaran Machine Learning. *Jurnal Ilmu Komputer Dan Science*, 3, 377–378.

Wilk-Kolodziejczyk, D., Regulski, K., & Gumieny, G. (2016). Comparative analysis of the properties of the nodular cast iron with carbides and the austempered ductile iron with use of the machine learning and the support vector machine. *International Journal of Advanced Manufacturing Technology*, 87(1–4), 1077–1093. <https://doi.org/10.1007/s00170-016-8510-y>

Ye, F. (2024). Ultraviolet spectrum-based molecular precision detection. *Highlights in Science Engineering and Technology*, 99, 101–110. <https://doi.org/10.54097/8wvt6677>

Yoon, J.-Y. (2016). Spectrophotometry. In *Introduction to Biosensors* (pp. 127–152). Springer International Publishing. https://doi.org/10.1007/978-3-319-27413-3_8

Zhou, K. peng, Bai, X. fang, & Bi, W. hong. (2018). Determination of ethanol content in ethanol-gasoline based on derivative absorption spectrometry and information fusion. *Optoelectronics Letters*, 14(6), 442–446. <https://doi.org/10.1007/s11801-018-8081-2>