

DAFTAR PUSTAKA

- Addy, J., Anafo, I. & Westman, E. (2026). *The role of EDA in developing robust machine learning models for lithology and penetration rate prediction from MWD data*. Mining, 6(1), p.19.
- Akiba, T., Sano, S., Yanase, T., Ohta, T. & Koyama, M. (2019). *Optuna: A Next-generation Hyperparameter Optimization Framework*.
- Al-Rubaie, M. & Chang, J.M. (2018). *Privacy preserving machine learning: Threats and solutions*. IEEE Security & Privacy Magazine. <https://doi.org/10.1109/MSEC.2018.2825045>
- Aladsani, M.A., Burton, H., Abdullah, S.A. & Wallace, J.W. (2022). *Explainable machine learning model for predicting drift capacity of reinforced concrete walls*. ACI Structural Journal, 119(3), pp. 191–204. <https://doi.org/10.14359/51734484>
- Aslanyan, T. (2023). *Machine learning fundamentals handbook – key concepts, algorithms, and Python code examples*. FreeCodeCamp. Tersedia pada: <https://www.freecodecamp.org/news/machine-learning-handbook/#heading-chapter-1-what-is-machine-learning>
- Asquith, G. & Gibson, C. (1982). *Basic well log analysis for geologists*. Tulsa: The American Association of Petroleum Geologists.
- Asquith, G.B., Krygowski, D. & Gibson, C.R. (2004). *Basic well log analysis*. Tulsa: American Association of Petroleum Geologists.
- Basyir, A., Bachtiar, A. & Haris, A. (2020). *Total organic carbon prediction of well logs data: Case study Banuwati Shale Member Fm., Asri Basin, Indonesia*. AIP Conference Proceedings, 2256. <https://doi.org/10.1063/5.0014651>
- Bergstra, J., Bardenet, R., Bengio, Y. & Kégl, B. (2011). *Algorithms for hyperparameter optimization*. Advances in Neural Information Processing Systems (NeurIPS), 24, pp. 2546–2554.
- Bishop, M.G. (2001). *South Sumatra Basin Province, Indonesia: The Lahat/Talang Akar-Cenozoic total petroleum system*. U.S. Geological Survey.
- Breiman, L., Friedman, J., Olshen, R. & Stone, C. (1984). *Classification and regression trees*. Belmont: Wadsworth International Group.
- Breiman, L. (2001). *Random forests*. Machine Learning, 45(1), pp. 5–32. <https://doi.org/10.1023/A:1010933404324>
- Carlos, N., Sillia, Jr., Alex, A. & Freitas (2010). *A survey of hierarchical classification across different application domains*. Data Mining and Knowledge Discovery, 22(1-2), pp.31–72. doi:<https://doi.org/10.1007/s10618-010-0175-9>.
- Chen, T. & Guestrin, C. (2016). *XGBoost: A scalable tree boosting system*.
- Doust, H. & Noble, R.A. (2008). *Petroleum systems of Indonesia*. Marine and Petroleum Geology, 25(2), hlm. 103–129.
- Dwihusna, N. (2020). *Seismic and well log based machine learning facies classification in the Panoma-Hugoton Field, Kansas and Raudhatain Field, North Kuwait*. Colorado School of Mines.

- Elkan, C. (2001). *The foundations of cost-sensitive learning*. Proceedings of the 17th International Joint Conference on Artificial Intelligence (IJCAI), hlm. 973–978.
- Farizi, F., Kurniawan, H., Siswikirana, R., Santoso, A., Purwanto, E., Dodiono & Masitah, S. (2018). *Integrated Fluid Interpretation Methodology with New Developed Techniques That Reveals Hidden Potentials in Mature Giant Tunu Field*. Proceedings of the Indonesian Petroleum Association.
- Garini, S.A., Shiddiqi, A.M., Utama, W. & Insani, A.N.F. (2025). *Filling-well: an effective technique to handle incomplete well-log data for lithology classification using machine learning algorithms*. MethodsX
- Gavidia, J.C.R., Chinelatto, G.F., Basso, M., Souza, J.P.P., Soltanmohammadi, R., Vidal, A.C., Goldstein, R.H. & Mohammadizadeh, S. (2023). *Utilizing integrated artificial intelligence for characterizing mineralogy and facies in a pre-salt carbonate reservoir, Santos Basin, Brazil, using cores, wireline logs, and multi-mineral petrophysical evaluation*. Geoenergy Science and Engineering, 231, 212303. <https://doi.org/10.1016/j.geoen.2023.212303>
- Ginger, D. & Fielding, K. (2005). *The petroleum systems and future potential of the South Sumatra basin*. Proceedings IPA, hlm. 67–89.
- Hamilton, W. (1979). *Tectonics of the Indonesian region*. USGS Professional Paper 1078.
- Harsono, A. (1997). *Evaluasi formasi dan aplikasi log*. Jakarta: Schlumberger Oilfield Services.
- Hartanto, R.R. dkk. (2023). *Laporan tahunan migas 2023*. Jakarta: Direktorat Jenderal Minyak dan Gas Bumi, Kementerian Energi dan Sumber Daya Mineral.
- Hidayat, H., Supriady, S., Anwar, T., Ariestya, G., Giriansyah, B. & Mahakam, P. (2019). *Revealing Hidden Potentials to Maintain Production by Using Integrated Petrophysical Interpretation Techniques in Mahakam Mature Fields*. SPE Conference. <https://doi.org/10.2118/196496-MS>
- Iosifidis, V., Papadopoulos, S., Rosenhahn, B. & Ntoutsis, E. (2022). *AdaCC: cumulative cost-sensitive boosting for imbalanced classification*. Knowledge and Information Systems, 65, hlm. 789–826. <https://doi.org/10.1007/s10115-022-01780-8>
- Koesoemadinata, R.P. (1980). *Geologi minyak bumi*. Bandung: ITB.
- Kolluri, J., Kotte, V., Phridviraj, B. & Razia, S. (2020). *Reducing Overfitting Problem in Machine Learning Using Novel L1/4 Regularization Method*. IEEE.
- Manullang, H.H. (2025). *Klasifikasi zona reservoir hidrokarbon menggunakan MIFI dan ANN*. Skripsi. Universitas Gadjah Mada.
- Mondol, N.H. (2015). *Well logging: Principles, applications and uncertainties*. Springer. https://doi.org/10.1007/978-3-642-34132-8_16
- Mukhiya, S.K. & Ahmed, U. (2020). *Hands-on exploratory data analysis with Python*. Birmingham: Packt.
- Panggabean, H., & Santy, L.D. (2012). *Sejarah Penimbunan Cekungan Sumatera Selatan dan Implikasinya Terhadap Waktu Generasi Hidrokarbon*. Geo-Resources, 22(4).

- Powers, D.M.W. (2011). *Evaluation: From precision, recall and F-measure to ROC*. Journal of Machine Learning Technologies, 2(1), hlm. 37–63.
- Pulunggono, A., Haryo, A.S. & Kosuma, C.G. (1992). *Pre-Tertiary and Tertiary fault systems as a framework of the South Sumatra Basin: A study of SAR-maps*. Proceedings Indonesian Petroleum Association.
- Quinlan, J.R. (1986). *Induction of decision trees*. Machine Learning, 1(1), pp. 81–106. <https://doi.org/10.1007/BF00116251>
- Rainio, O., Teuho, J. & Klén, R. (2024). *Evaluation metrics and statistical tests for machine learning*. Scientific Reports, 14(1). <https://doi.org/10.1038/s41598-024-56706-x>
- Rana, M.S. & Li, F. (2024). *Predicting compressive strength using boosting and bagging techniques*. Materials Today Communications, 41.
- Ren, Q., Han, S. & Li, M. (2019). *Tectonic discrimination of olivine in basalt using data mining techniques*. Big Earth Data.
- Rider, M. (2002). *The geological interpretation of well logs*. Scotland: Whittles Publishing.
- Schlumberger (2026). *Oilfield glossary*. Tersedia pada: <https://www.glossary.oilfield.slb.com> (Diakses: 15 Maret 2026).
- Shwartz, S.S. & David, S.B. (2014). *Understanding machine learning: From theory to algorithms*. Cambridge: Cambridge University Press.
- Wood, G.H., Jr., Kehn, T.M., Carter, M.D. & Culbertson, W.C. (1983). *Coal resource classification system of the U.S. Geological Survey*. Geological Survey Circular 891. Washington, D.C.: U.S. Geological Survey.
- Yadav, S. & Shukla, S. (2016). *Analysis of k-fold cross-validation over hold-out validation*. IEEE.
- Zhu, W., Qiu, R. & Ying, F. (2024). *Comparative study on the performance of categorical variable encoders in classification and regression tasks*. IEEE.