

DAFTAR PUSTAKA

- Alameedy, U., Al-Sarkhi, A., & Abdul-Majeed, G. (2024). Comprehensive review of severe slugging phenomena and innovative mitigation techniques in oil and gas systems. *Process Safety and Environmental Protection*, 213, 78–94. <https://doi.org/10.1016/j.cherd.2024.11.034>
- Alghtus, K. M. A., Gannan, A., Alhajri, K. M., Jubouri, A. L. a. A., & Al-Janahi, H. A., I. (2025). AI-Powered machine learning approaches for fault diagnosis in industrial pumps. *ArXiv.org*. <https://doi.org/10.48550/arxiv.2508.15550>
- Ali, Z. A., Abduljabbar, Z. H., Tahir, H. A., Sallow, A. B., & Almufti, S. M. (2023). eXtreme Gradient Boosting Algorithm with Machine Learning: a Review. *Academic Journal of Nawroz University*, 12(2), 320–334. <https://doi.org/10.25007/ajnu.v12n2a1612>
- Amoanu, S. (2025). Comparative Forecasting of Financial Time Series Using ARIMA, GARCH, Random Forest, and XGBoost Models. <https://doi.org/10.21203/rs.3.rs-7837766/v1>
- Azevedo, G., Baliño, J., & Andreolli, I. (2022). Nonlinear stability analysis for severe slugging in an air–water two-phase flow. *International Journal of Multiphase Flow*, 159, 104334. <https://doi.org/10.1016/j.ijmultiphaseflow.2022.104334>
- Bai, Y., & Bai, Q. (2019). Overview of subsea engineering. In *Elsevier eBooks* (pp. 3–22). <https://doi.org/10.1016/b978-0-12-812622-6.00001-4>
- Büyükkeçeci, M., & Okur, M. C. (2023). A comprehensive review of feature selection and feature selection stability in machine learning. *GAZI UNIVERSITY JOURNAL OF SCIENCE*, 36(4), 1506–1520. <https://doi.org/10.35378/gujs.993763>
- Casolo, S. (2022). Severe slugging flow identification from topological indicators. *Digital Chemical Engineering*, 4, 100045. <https://doi.org/10.1016/j.dche.2022.100045>
- Chandrasekaran, S. (2021). Marine risers: introduction. In *Elsevier eBooks* (pp. 1–23). <https://doi.org/10.1016/b978-0-12-823537-9.00006-2>
- Chang, Y., Xu, Q., Huang, B., Zhang, X., Yu, H., Chen, H., Thévenin, D., & Guo, L. (2025). Prediction of the severe slugging period in gas-liquid two-phase pipeline-riser systems using an artificial neural network. *Energy*, 331, 137026. <https://doi.org/10.1016/j.energy.2025.137026>
- Chen, C., Li, X., & Wang, K. (2024). Applying XGBOOST for fault prediction in industrial production line. *Journal of Intelligence and Knowledge Engineering*, 2(3), 154–161. <https://doi.org/10.62517/jike.202404321>
- Chen, S., Zeng, L., Zhang, Z., Liang, Y., Tan, J., & Yu, X. (2024). Progress and outlook on severe slugging mitigation techniques for offshore hydrocarbon production: A systematic review. *Geoenergy Science and Engineering*, 246, 213546. <https://doi.org/10.1016/j.geoen.2024.213546>
- Chen, T., & Guestrin, C. (2016). XGBoost: A scalable tree boosting system. In *Proceedings of the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining* (pp. 785–794). Association for Computing Machinery. <https://doi.org/10.1145/2939672.2939785>

- Dabholkar, D., Rawat, D., Manikani, S., & Abraham, D. (2023). Slug forecasting and production optimization using deep learning. Offshore Technology Conference. <https://doi.org/10.4043/32300-ms>
- De Jesus Rocha Santos, M., De Salvo Castro, A. O., Leta, F. R., De Araujo, J. F. M., De Souza Ferreira, G., De Araújo Santos, R., De Campos Lima, C. B., & Lima, G. B. A. (2022). Statistical analysis of offshore production sensors for failure detection applications. In *Seven Events eBooks* (pp. 185–197). <https://doi.org/10.56238/iesfodav1-013>
- De Maman, A., Diehl, F. C., Trierweiler, J. O., & Farenzena, M. (2024). Early detection of closed-loop slugging patterns in offshore oil wells with unsupervised learning approaches. *Computers & Chemical Engineering*, 186, 108710. <https://doi.org/10.1016/j.compchemeng.2024.108710>
- Diez, P. (2018). Introduction. In *Elsevier eBooks* (pp. 1–21). <https://doi.org/10.1016/b978-0-12-812892-3.00001-7>
- Dillner, J. (2019). Early detection and prevention. *Molecular Oncology*, 13(3), 591–598. <https://doi.org/10.1002/1878-0261.12459>
- Edyawan, W., & Setiawan, D. (2025). Data-driven early detection model for slugging in offshore gas production using machine learning: Case study of NB field. *Proceedings of the Indonesian Petroleum Association, 49th Annual Convention*.
- Emetere, M. E. (2022). Numerical interpolation in environmental research. In *Elsevier eBooks* (pp. 169–190). <https://doi.org/10.1016/b978-0-12-818971-9.00005-3>
- Fadilah, H., Sophiah, S., Syahidin, Y., Gunawan, E., & Yuniarty, N. (2021). Perancangan sistem informasi pelepasan informasi rekam medis rawat jalan di Klinik Utama Medika Antapani. *Explore Jurnal Sistem Informasi Dan Telematika*, 12(2), 126. <https://doi.org/10.36448/jsit.v12i2.2064>
- Fang, Z., Yang, S., Lv, C., An, S., & Wu, W. (2022). Application of a data-driven XGBoost model for the prediction of COVID-19 in the USA: a time-series study. *BMJ Open*, 12(7), e056685. <https://doi.org/10.1136/bmjopen-2021-056685>
- Felderer, M., Büchler, M., Johns, M., Brucker, A. D., Breu, R., & Pretschner, A. (2015). Security testing. In *Advances in computers* (pp. 1–51). <https://doi.org/10.1016/bs.adcom.2015.11.003>
- Fernandes, M., Corchado, J. M., & Marreiros, G. (2022). Machine learning techniques applied to mechanical fault diagnosis and fault prognosis in the context of real industrial manufacturing use-cases: a systematic literature review. *Applied Intelligence*, 52(12), 14246–14280. <https://doi.org/10.1007/s10489-022-03344-3>
- Fernandes, W., Komati, K. S., & De Souza Gazolli, K. A. (2023). Anomaly detection in oil-producing wells: a comparative study of one-class classifiers in a multivariate time series dataset. *Journal of Petroleum Exploration and Production Technology*, 14(1), 343–363. <https://doi.org/10.1007/s13202-023-01710-6>
- Grill, G. (2021). Future protest made risky: Examining social media based civil unrest prediction research and products. *Computer Supported Cooperative Work (CSCW)*, 30(5–6), 811–839. <https://doi.org/10.1007/s10606-021-09409-0>
- Hafidhzullah, M. F., Nirmala, G. S. (2024). Perhitungan forecast cadangan sumur minyak menggunakan metode decline curve analysis. *Jurnal Ilmiah Sain Dan Teknologi*, 2(3), 16–24.

- Hafsa, N., Rushd, S., & Yousuf, H. (2023). Comparative performance of Machine-Learning and Deep-Learning algorithms in predicting Gas–Liquid flow regimes. *Processes*, 11(1), 177. <https://doi.org/10.3390/pr11010177>
- Harunurrasyid, H. (2013). PENGARUH PERUBAHAN HARGA BAHAN BAKAR MINYAK (BBM) TERHADAP TINGKAT INFLASI DI INDONESIA. *Jurnal Ekonomi Pembangunan*, 11(2), 78–90. <https://doi.org/10.29259/jep.v11i2.4917>
- Hassija, V., Chamola, V., Mahapatra, A., Singal, A., Goel, D., Huang, K., Scardapane, S., Spinelli, I., Mahmud, M., & Hussain, A. (2023). Interpreting Black-Box Models: A review on Explainable Artificial intelligence. *Cognitive Computation*, 16(1), 45–74. <https://doi.org/10.1007/s12559-023-10179-8>
- Huda, M., Erwanto, D., & Shalahudin, Y. (2025). Penambahan flow transmitter sebagai kontrol untuk penambah keakurasian pembacaan produksi hasil minyak bumi. *Jurnal Qua Teknika*, *15*(1), 124–136.
- Hussein, A. (2022). Flow assurance. In Elsevier eBooks (pp. 53–103). <https://doi.org/10.1016/b978-0-323-99118-6.00015-0>
- Igbokwe, L. C. (2022). Severe slugging with multiphase fluid transport and phase separation in subsea pipelines. Memorial University Research Repository (Memorial University). <https://doi.org/10.48336/5r9p-g223>
- Indra Khairuman. (2025, 24 Juni). Defisit Anggaran Terancam Melebar Akibat Lonjakan Harga Minyak Dunia. *kontan.co.id*. <https://nasional.kontan.co.id/news/defisit-anggaran-terancam-melebar-akibat-lonjakan-harga-minyak-dunia>
- Introduction to Boosted Trees — xgboost 3.1.1 documentation. (n.d.). Diakses 26 Januari 2026, dari <https://xgboost.readthedocs.io/en/stable/tutorials/model.html>
- Jung, S., Yang, H., Park, K., Seo, Y., & Seong, W. (2019). Monitoring severe slugging in Pipeline-Riser System using accelerometers for application in early recognition. *Sensors*, 19(18), 3930. <https://doi.org/10.3390/s19183930>
- Kotu, V., & Deshpande, B. (2019). Model evaluation. In *Data Science* (pp. 263–279). <https://doi.org/10.1016/b978-0-12-814761-0.00008-3>
- L. Ashok Kumar. (2024). Predictive Analytics using MATLAB® for Biomedical Applications. <https://doi.org/10.1016/c2023-0-51096-1>
- Leite, D., Andrade, E., Rativa, D., & Maciel, A. M. A. (2024). Fault Detection and Diagnosis in Industry 4.0: A review on Challenges and opportunities. *Sensors*, 25(1), 60. <https://doi.org/10.3390/s25010060>
- Lopes, L. G. O., De Almeida Vieira, T. M., Aranha, P. E., De Lima, E. T., Junior, & Lira, W. W. M. (2025). Detection and classification of anomalies in oil well production using Open-World Learning. *Engineering Applications of Artificial Intelligence*, 159, 111514. <https://doi.org/10.1016/j.engappai.2025.111514>
- Marins, M. A., Barros, B. D., Santos, I. H., Barrionuevo, D. C., Vargas, R. E., De M Prego, T., De Lima, A. A., De Campos, M. L., Da Silva, E. A., & Netto, S. L. (2020). Fault detection and classification in oil wells and production/service lines using random forest. *Journal of Petroleum Science and Engineering*, 197, 107879. <https://doi.org/10.1016/j.petrol.2020.107879>

- Nisbet, R., Miner, G., & Yale, K. (2018). Model evaluation and enhancement. In Elsevier eBooks (pp. 215–233). <https://doi.org/10.1016/b978-0-12-416632-5.00011-6>
- Nnabuike, S. G., Tandoh, H., & Whidborne, J. F. (2021). Slug flow control using topside measurements: A review. *Chemical Engineering Journal Advances*, 9, 100204. <https://doi.org/10.1016/j.cej.2021.100204>
- Okereke, N., Ajugwe, U., Okalla, C., Anyadiegwu, C., Kerunwa, A., & Udeagbara, S. (2023). AN INVESTIGATION OF SEVERE SLUGGING MITIGATION TECHNIQUES IN DEEPWATER OIL FIELD SCENERIO: A REVIEW STUDY. *Journal of Petroleum and Mining Engineering*, 25(1), 65–75. <https://doi.org/10.21608/jpme.2023.167595.1138>
- Patil, D., Rane, N. L., Desai, P., & Rane, J. (2024). Machine learning and deep learning: Methods, techniques, applications, challenges, and future research opportunities. In *Trustworthy Artificial Intelligence in Industry and Society*. https://doi.org/10.70593/978-81-981367-4-9_2
- Petrobras. (2025). *3W/resources/introduction_to_3w_dataset_v2.0.0 at main · petrobras/3W*. GitHub. Diakses 19 Mei 2026, dari https://github.com/petrobras/3W/tree/main/resources/introduction_to_3w_dataset_v2.0.0
- Raabe, G., & Jortner, S. (2021). Reference: Subsea equipment. In Elsevier eBooks (pp. 547–574). <https://doi.org/10.1016/b978-0-323-90584-8.00003-4>
- Santoro, D., Ciano, T., & Ferrara, M. (2024). A comparison between machine and deep learning models on high stationarity data. *Scientific Reports*, 14(1), 19409. <https://doi.org/10.1038/s41598-024-70341-6>
- Saparbayeva, N., Balakin, B. V., Struchalin, P. G., Rahman, T., & Alyaev, S. (2024). Application of machine learning to predict blockage in multiphase flow. *Computation*, 12(4), 67. <https://doi.org/10.3390/computation12040067>
- Shikha, S., Sethia, D., & Indu, S. (2024). Investigating the Effect of Sliding Window Length for EEG-based Anxiety Classification. *2024 Asia Pacific Conference on Innovation in Technology (APCIT)*, 1–6. <https://doi.org/10.1109/apcit62007.2024.10673545>
- Silva, A. C. A., Oliveira, I. M. N., Aranha, P. E., Ramos, D. L., Vieira, T. M. A., & Santos, B. B. (2025). DETECTION OF UNEXPECTED EVENTS IN OIL WELLS USING MACHINE LEARNING WITH LOCAL OUTLIER FACTOR. *Brazilian Journal of Petroleum and Gas*, 18(4), 279–287. <https://doi.org/10.5419/bjpg2024-0018>
- Vargas, R. E. V., Munaro, C. J., Ciarelli, P. M., Medeiros, A. G., Amaral, B. G. D., Barrionuevo, D. C., De Araújo, J. C. D., Ribeiro, J. L., & Magalhães, L. P. (2019). A realistic and public dataset with rare undesirable real events in oil wells. *Journal of Petroleum Science and Engineering*, 181, 106223. <https://doi.org/10.1016/j.petrol.2019.106223>
- Williams, J. (2025, 7 Oktober). Dampak Harga Minyak Dunia terhadap Perekonomian Global. Innoventure. <https://www.innoventure.id/dampak-harga-minyak-dunia-terhadap-perekonomian-global/>
- XGBoost Parameters — xgboost 3.1.1 documentation. (n.d.). Diakses 9 Februari 2026, dari <https://xgboost.readthedocs.io/en/stable/parameter.html>
- Zapata-Cortes, O., Arango-Serna, M. D., Zapata-Cortes, J. A., & Restrepo-Carmona, J. A. (2024). Machine learning models and applications for early detection. *Sensors*, 24(14), 4678. <https://doi.org/10.3390/s24144678>

- Zhang, W., Gu, X., Hong, L., Han, L., & Wang, L. (2023). Comprehensive review of machine learning in geotechnical reliability analysis: Algorithms, applications and further challenges. *Applied Soft Computing*, 136, 110066. <https://doi.org/10.1016/j.asoc.2023.110066>
- Zhu, H., Hu, J., Gao, Y., Li, W., Li, J., & Xu, B. (2023). An insight into the severe slugging characteristics in a catenary flexible riser. *Physics of Fluids*, 35(12). <https://doi.org/10.1063/5.0174958>