DAFTAR PUSTAKA

Alawadi, A. (2025). *SNT (Simulated Network Traffic Using Mininet and Ryu) DDoS Detection Dataset*. Mendeley Data. https://doi.org/10.17632/9hz6f62gtk.1

Azhari, F., Hananto, B., & Ernawati, I. (2025). Perbandingan kinerja algoritma dalam klasifikasi serangan DDoS berdasarkan data CIC IoMT dataset. *Informatik: Jurnal Ilmu Komputer*, *21*(2), 115–127. https://doi.org/10.52958/iftk.v21i2.11467

Bouke, M. A., & Abdullah, A. (2023). An empirical study of pattern leakage impact during data preprocessing on machine learning-based intrusion detection models reliability. *Expert Systems with Applications*, *230*, 120715. https://doi.org/10.1016/j.eswa.2023.120715

Chen, T., & Guestrin, C. (2016). XGBoost: A Scalable Tree Boosting System. *Proceedings of the 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining*, 785–794. https://doi.org/10.1145/2939672.2939785

Chu, T. S., Si, W., Simoff, S., & Nguyen, Q. V. (2022). A Machine Learning Classification Model Using Random Forest for Detecting DDoS Attacks. *2022 International Symposium on Networks, Computers and Communications (ISNCC)*, 1–7. https://doi.org/10.1109/ISNCC55209.2022.9851797

Claise, B., Trammell, B., & Aitken, P. (2013). *Specification of the IP Flow Information Export (IPFIX) Protocol for the Exchange of Flow Information* (Number RFC 7011). https://doi.org/10.17487/RFC7011

Cloudflare. (2026). *2025 Q4 DDoS Threat Report: A Record-Setting 31.4 Tbps Attack Caps a Year of Massive DDoS Assaults*. https://blog.cloudflare.com/ddos-threat-report-2025-q4/

El Sayed, M. S., Le-Khac, N.-A., Azer, M. A., & Jurcut, A. D. (2022). A Flow-Based Anomaly Detection Approach With Feature Selection Method Against DDoS Attacks in SDNs. *IEEE Transactions on Cognitive Communications and Networking*, *8*(4), 1862–1880. https://doi.org/10.1109/TCCN.2022.3186331

Hanif, A., Martanto, M. L., & Adianto, H. (2021). Adaptasi model SDLC iteratif terhadap pendekatan mobile-first untuk pengembangan antarmuka web responsive. *Format: Jurnal Ilmiah Teknik Informatika*, *10*(1), 12–24. https://doi.org/10.22441/format.2021.v10.i1.002

Haseeb-ur-Rehman, R. M. A., Aman, A. H. M., Hasan, M. K., Ariffin, K. A. Z., Namoun, A., Tufail, A., & Kim, K.-H. (2023). High-Speed Network DDoS

Attack Detection: A Survey. *Sensors*, *23*(15), 6850. https://doi.org/10.3390/s23156850

Hjelle, S., Mikalef, P., Altwaijry, N., & Parida, V. (2024). Organizational Decision Making and Analytics: An Experimental Study on Dashboard Visualizations. *Information & Management*, *61*(6), 104011. https://doi.org/10.1016/j.im.2024.104011

International Software Testing Qualifications Board. (2024). *Certified Tester Foundation Level Syllabus* (Number Version 4.0.1). https://istqb.org/wp-content/uploads/2024/11/ISTQB_CTFL_Syllabus_v4.0.1.pdf

Jain, A. K., Shukla, H., & Goel, D. (2024). A Comprehensive Survey on DDoS Detection, Mitigation, and Defense Strategies in Software-Defined Networks. *Cluster Computing*, *27*, 13129–13164. https://doi.org/10.1007/s10586-024-04596-z

James, G., Witten, D., Hastie, T., Tibshirani, R., & Taylor, J. (2021). *An Introduction to Statistical Learning: With Applications in R* (2nd ed.). Springer. https://doi.org/10.1007/978-1-0716-1418-1

Kartono, F. K., Nursaadah, S., Nugroho, M. R., Tama, D. A., Mashudi, F. A., Wicaksono, A., & Nasir, M. (2024). Pengujian Black Box Testing pada Sistem Website Osha Snack: Pendekatan Teknik Boundary Value Analysis. *Jurnal Kridatama Sains Dan Teknologi*, *6*(2), 754–766. https://doi.org/10.53863/kst.v6i02.1407

Khalifa, F. A., Abdelkader, H. M., & Elsaid, A. H. (2024). An Analysis of Ensemble Pruning Methods Under the Explanation of Random Forest. *Information Systems*, *120*, 102310. https://doi.org/10.1016/j.is.2023.102310

Khan, A. A., Chaudhari, O., & Chandra, R. (2024). A review of ensemble learning and data augmentation models for class imbalanced problems: Combination, implementation and evaluation. *Expert Systems with Applications*, *244*, 122778. https://doi.org/10.1016/j.eswa.2023.122778

Kreutz, D., Ramos, F. M. V, Verissimo, P. E., Rothenberg, C. E., Azodolmolky, S., & Uhlig, S. (2015). Software-Defined Networking: A Comprehensive Survey. *Proceedings of the IEEE*, *103*(1), 14–76. https://doi.org/10.1109/JPROC.2014.2371999

Kurose, J. F., & Ross, K. W. (2021). *Computer Networking: A Top-Down Approach* (8th ed.). Pearson.

Lee, I. (2026). *CIA Triad Definition: Examples of Confidentiality, Integrity, and Availability*. https://www.wallarm.com/what/cia-triad-definition

Liu, P., & Fan, W. (2021). Extreme Gradient Boosting (XGBoost) Model for Vehicle Trajectory Prediction in Connected and Autonomous Vehicle

Environment. *Promet - Traffic&Transportation*, *33*(5), 767–774. https://doi.org/10.7307/ptt.v33i5.3779

Liu, Z., Wang, Y., Feng, F., Liu, Y., Li, Z., & Shan, Y. (2023). A DDoS Detection Method Based on Feature Engineering and Machine Learning in Software-Defined Networks. *Sensors*, *23*(13), 6176. https://doi.org/10.3390/s23136176

Ma, R., Wang, Q., Bu, X., & Chen, X. (2023). Real-Time Detection of DDoS Attacks Based on Random Forest in SDN. *Applied Sciences*, *13*(13), 7872. https://doi.org/10.3390/app13137872

Mahar, I. A., Aziz, K., Chakrabarti, P., Ahmed, N., Ladan, M., & Javed, Y. (2026). A Hybrid Machine Learning Approach for Detecting DDoS Attacks in Software-Defined Networks. *Scientific Reports*, *16*, 6533. https://doi.org/10.1038/s41598-026-35458-w

McKeown, N., Anderson, T., Balakrishnan, H., Parulkar, G., Peterson, L., Rexford, J., Shenker, S., & Turner, J. (2008). OpenFlow: Enabling Innovation in Campus Networks. *ACM SIGCOMM Computer Communication Review*, *38*(2), 69–74. https://doi.org/10.1145/1355734.1355746

Mininet. (2026). *Mininet: An Instant Virtual Network on Your Laptop*. http://mininet.org/

Mohapatra, H. (2023). A Short Review on Software Development Life Cycles. *COJ Technical & Scientific Research*, *4*(4). https://doi.org/10.31031/COJTS.2023.04.000594

Nassef, M. (2025). Boosting Intrusion Detection Against DDoS Attacks Using a Feature Engineering-Based Fine-Tuned XGBoost Model. *International Journal on Semantic Web and Information Systems*, *21*(1), 1–39. https://doi.org/10.4018/IJSWIS.383062

Pallets Project. (2026). *Flask Documentation*. https://flask.palletsprojects.com/en/stable/

Pandey, N., & Mishra, P. K. (2023). Detection of DDoS Attack in IoT Traffic Using Ensemble Machine Learning Techniques. *Networks and Heterogeneous Media*, *18*(4), 1393–1409. https://doi.org/10.3934/nhm.2023061

Pascoe, C., Quinn, S., & Scarfone, K. (2024). *The NIST Cybersecurity Framework (CSF) 2.0* (Number NIST CSWP 29). https://doi.org/10.6028/NIST.CSWP.29

Pressman, R. S., & Maxim, B. R. (2020). *Software Engineering: A Practitioner's Approach* (9th ed.). McGraw-Hill Education.

Rozam, N. F., & Riasetiawan, M. (2023). XGBoost Classifier for DDoS Attack Detection in Software Defined Network Using sFlow Protocol. *International Journal on Advanced Science, Engineering and Information Technology*, *13*(2), 718–725. https://doi.org/10.18517/ijaseit.13.2.17810

Ryu SDN Framework. (2026). *Ryu SDN Framework Documentation*. https://ryu.readthedocs.io/en/latest/

Sarker, I. H. (2021). Machine Learning: Algorithms, Real-World Applications and Research Directions. *SN Computer Science*, *2*(3), 160. https://doi.org/10.1007/s42979-021-00592-x

Scikit-learn Developers. (2026). *StratifiedGroupKFold*. https://scikit-learn.org/stable/modules/generated/sklearn.model_selection.StratifiedGroupKFold.html

Stallings, W. (2019). *Network Security Essentials: Applications and Standards* (6th ed.). Pearson.

Suherlan, E., Arti, S., Nabilah, S., & Hazimah, Z. (2025). Penerapan Flask Framework untuk Deployment Model Machine Learning dalam Mendukung Analisis Adaptasi Mahasiswa pada Pembelajaran Daring. *PINTER: Jurnal Pendidikan Teknik Informatika Dan Komputer*, *9*(1), 110–117. https://doi.org/10.21009/pinter.9.1.15

Sun, Z., Wang, G., Li, P., Wang, H., Zhang, M., & Liang, X. (2024). An Improved Random Forest Based on the Classification Accuracy and Correlation Measurement of Decision Trees. *Expert Systems with Applications*, *237*, 121549. https://doi.org/10.1016/j.eswa.2023.121549

Tanenbaum, A. S., Feamster, N., & Wetherall, D. J. (2021). *Computer Networks* (6th ed.). Pearson.

Umer, M. A., Junejo, K. N., Jilani, M. T., & Mathur, A. P. (2022). Machine Learning for Intrusion Detection in Industrial Control Systems: Applications, Challenges, and Recommendations. *International Journal of Critical Infrastructure Protection*, *38*, 100516. https://doi.org/10.1016/j.ijcip.2022.100516

Vafaei, N., Ribeiro, R. A., & Camarinha-Matos, L. M. (2022). Assessing Normalization Techniques for Simple Additive Weighting Method. *Procedia Computer Science*, *199*, 1229–1236. https://doi.org/10.1016/j.procs.2022.01.156

XGBoost Developers. (n.d.). *Python API Reference*. Retrieved https://xgboost.readthedocs.io/en/release_3.3.0/python/python_api.html

Yas, Q. M., Alazzawi, A., & Rahmatullah, B. (2023). A Comprehensive Review of Software Development Life Cycle Methodologies: Pros, Cons, and Future Directions. *Iraqi Journal for Computer Science and Mathematics*, *4*(4), 173–190. https://doi.org/10.52866/ijcsm.2023.04.04.014