

## DAFTAR PUSTAKA

- Ajeesh, A. and Mathew, T. (2024). Enhancing Network Security: A Comparative Analysis of Deep Learning and Machine Learning Models for Intrusion Detection. 2024 International Conference on E-mobility, Power Control and Smart Systems (ICEMPS), Thiruvananthapuram, India, pp. 1–6. doi: 10.1109/ICEMPS60684.2024.10559350.
- Bergstra, J. and Bengio, Y. (2012). Random Search for Hyper-Parameter Optimization. *Journal of Machine Learning Research* 13, pp. 281–305. <https://jmlr.org/papers/volume13/bergstra12a/bergstra12a.pdf>
- Gupta, R. and Jindal, R. (2025). Impact of Too Many *Neural Network* Layers on Overfitting. *International Journal of Computer Science and Mobile Computing*, 14(5), 1–14. doi:10.47760/ijcsmc.2025.v14i05.001
- Halbouni, A., Gunawan, T. S., Habaebi, M. H., Halbouni, M., Kartwi, M., Ahmad, R. (2022). CNN-LSTM: Hybrid Deep *Neural Network* for Network Intrusion Detection System. *IEEE Access* 10, pp. 99837–99849. doi: 10.1109/ACCESS.2022.3206425.
- Hoffer, E., Hubara, I., Soudry, D. (2017). Train Longer, Generalize Better: Closing the Generalization Gap in Large Batch Training. *Advances in Neural Information Processing Systems* 30 (NeurIPS 2017), Long Beach, CA.
- Java, M. I., Shabrina, U. I., Wiliyanti, Fahmi, R. N., Pratomo, B. A. (2024). Enhancing Cybersecurity: Two-Phase Detection Approach for Intrusion Network for Anomaly Data. 2024 IEEE International Conference on Artificial Intelligence and Mechatronics Systems (AIMS), Bandung, Indonesia, pp. 1–6. doi: 10.1109/AIMS61812.2024.10512863.
- Kalpana, P., Srilatha, P., Krishna, G. S., Alkhayyat, A., Mazumder, D. (2024). Denial of Service (DoS) Attack Detection Using Feed Forward *Neural Network* in Cloud Environment. 2024 International Conference on Data Science and Network Security (ICDSNS), Tiptur, India, pp. 1–4. doi: 10.1109/ICDSNS62112.2024.10691181.
- Keskar, N. S., Mudigere, D., Nocedal, J., Smelyanskiy, M., Tang, P. T. P. (2017). On Large-Batch Training for Deep Learning: Generalization Gap and Sharp Minima. arXiv preprint, arXiv:1609.04836. <https://arxiv.org/abs/1609.04836>.
- Kumaresan, S. J., Senthilkumar, C., Kongkham, D., Beenarani, B. B., Nirmala, P. (2024). Investigating the Effectiveness of Recurrent *Neural Networks* for Network Anomaly Detection. 2024 International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics

- (IITCEE), Bangalore, India, pp. 1–5. doi: 10.1109/IITCEE59897.2024.10467790.
- Li, T. (2024). Optimization of Algorithm for Network Traffic Anomaly Detection Using Convolutional *Neural Networks* (CNN). 2024 International Conference on Intelligent Algorithms for Computational Intelligence Systems (IACIS), Hassan, India, pp. 1–6. doi: 10.1109/IACIS61494.2024.10721912.
- Loshchilov, I. and Hutter, F. (2019). Decoupled Weight Decay Regularization (AdamW). 7th International Conference on Learning Representations (ICLR 2019), New Orleans, USA. arXiv:1711.05101. <https://arxiv.org/html/1711.05101>
- Saad, A. M., Meekay, M. A., Sayed, M. S. E. (2023). (2024). Utilizing Deep *Neural Networks* to Improve Intrusion Detection System (IDS). 2024 International Telecommunications Conference (ITC-Egypt), Cairo, Egypt, pp. 858–864. doi: 10.1109/ITC-Egypt61547.2024.10620550.
- Salehin, I. and Kang, D. (2023). A Review on *Dropout* Regularization Approaches for Deep *Neural Networks* within the Scholarly Domain. *Electronics*, vol. 12, no. 14, p. 3106. doi: 10.3390/electronics12143106
- Shanthi, K. and Maruthi, R. (2023). Machine Learning Approach for Anomaly-Based Intrusion Detection Systems Using Isolation Forest Model and Support Vector Machine. 2023 5th International Conference on Inventive Research in Computing Applications (ICIRCA), Coimbatore, India, pp. 136–139. doi: 10.1109/ICIRCA57980.2023.10220620.
- Sharkawy, A. (2024). The effect of increasing *hidden layers* on the performance of the deep *Neural Network*: modelling, investigation, and evaluation. *Research on Engineering Structures and Materials*, 10, (in press), 1–8. doi:10.17515/resm2024.442st0909tn
- Simon, J., Kapileswar, N., Vani, R., Reddy, N. M., Moulali, D., Reddy, A. R. N. (2024). Enhanced Network Anomaly Detection Using Autoencoders: A Deep Learning Approach for Proactive Cybersecurity. 2024 *Second International Conference on Intelligent Cyber Physical Systems and Internet of Things (ICoICI)*, Coimbatore, India, pp. 90–96. doi: 10.1109/ICoICI62503.2024.10696845.
- Siregar, S. M., Purwanto, Y., Wibowo, S. A. (2023). Enhancing Network Anomaly Detection with Optimized One-Class SVM (OCSVM). 2023 3rd International Conference on Intelligent Cybernetics Technology & Applications (ICICyTA), Denpasar, Bali, Indonesia, pp. 84–88. doi: 10.1109/ICICyTA60173.2023.10428830.

Tan, M. and Le, Q. V. (2019). EfficientNet: Rethinking Model Scaling for Convolutional *Neural Networks*. Proceedings of the 36th International Conference on Machine Learning (ICML 2019), Long Beach, USA, PMLR 97, pp. 6105–6114. <https://arxiv.org/pdf/1905.11946>