

REFERENCES

- [1] M. N. Alenezi, H. K. Alabdulrazzaq, A. A. Alshaher, and M. M. Alkharang, "Evolution of Malware Threats and Techniques: a Review," *Int. J. Commun. Netw. Inf. Secur. IJCNIS*, vol. 12, no. 3, Apr. 2022, doi: 10.17762/ijcnis.v12i3.4723.
- [2] Department of Computer Science, Virtual University of Pakistan and R. Tahir, "A Study on Malware and Malware Detection Techniques," *Int. J. Educ. Manag. Eng.*, vol. 8, no. 2, pp. 20–30, Mar. 2018, doi: 10.5815/ijeme.2018.02.03.
- [3] M. Al-Asli and T. A. Ghaleb, "Review of Signature-based Techniques in Antivirus Products," in *2019 International Conference on Computer and Information Sciences (ICCIS)*, Sakaka, Saudi Arabia: IEEE, Apr. 2019, pp. 1–6. doi: 10.1109/iccisci.2019.8716381.
- [4] O. Aslan and R. Samet, "A Comprehensive Review on Malware Detection Approaches," *IEEE Access*, vol. 8, pp. 6249–6271, 2020, doi: 10.1109/access.2019.2963724.
- [5] D. Ucci, L. Aniello, and R. Baldoni, "Survey of machine learning techniques for malware analysis," *Comput. Secur.*, vol. 81, pp. 123–147, Mar. 2019, doi: 10.1016/j.cose.2018.11.001.
- [6] H. E. Merabet and A. Hajraoui, "A Survey of Malware Detection Techniques based on Machine Learning," *Int. J. Adv. Comput. Sci. Appl.*, vol. 10, no. 1, 2019, doi: 10.14569/ijacsa.2019.0100148.
- [7] M. S. Akhtar and T. Feng, "Malware Analysis and Detection Using Machine Learning Algorithms," *Symmetry*, vol. 14, no. 11, p. 2304, Nov. 2022, doi: 10.3390/sym14112304.
- [8] K. Sethi, R. Kumar, L. Sethi, P. Bera, and P. K. Patra, "A Novel Machine Learning Based Malware Detection and Classification Framework," in *2019 International Conference on Cyber Security and Protection of Digital Services (Cyber Security)*, Oxford, United Kingdom: IEEE, Jun. 2019. doi: 10.1109/cybersecpods.2019.8885196.
- [9] Z. Xu, S. Ray, P. Subramanyan, and S. Malik, "Malware detection using machine learning based analysis of virtual memory access patterns," in *Design, Automation & Test in Europe Conference & Exhibition (DATE), 2017*, Lausanne, Switzerland: IEEE, Mar. 2017, pp. 169–174. doi: 10.23919/date.2017.7926977.

- [10] R. Vinayakumar, M. Alazab, K. P. Soman, P. Poornachandran, and S. Venkatraman, "Robust Intelligent Malware Detection Using Deep Learning," *IEEE Access*, vol. 7, pp. 46717–46738, 2019, doi: 10.1109/access.2019.2906934.

