

DAFTAR PUSTAKA

- Agrafiotis, I. et al., 2018. A taxonomy of cyber-harms: Defining the impacts of cyber-attacks and understanding how they propagate. *Journal of Cybersecurity*, pp. 1-15.
- Agustini, P., 2021. *Warganet Meningkat, Indonesia Perlu Tingkatkan Nilai Budaya di Internet*. [Online]
Available at: <https://aptika.kominfo.go.id/2021/09/warganet-meningkat-indonesia-perlu-tingkatkan-nilai-budaya-di-internet/>
[Accessed 15 October 2021].
- Amiri, A., Wah, T. . Y. & Saboohi, H., 2014. On Density-Based Data Streams Clustering Algorithms: A Survey. *Journal of Computer Science and Technology*, 29(1), pp. 116-141.
- anaconda, 2017. *Anaconda Distribution Starter Guide*. [Online]
Available at: <https://docs.anaconda.com/anaconda/user-guide/getting-started/>
[Accessed 20 10 2021].
- Anjani, N. H., 2021. *Cybersecurity Protection in Indonesia*, Jakarta: Center for Indonesian Policy Studies.
- Bajtoš, T. et al., 2019. Analysis of the Infection and the Injection Phases of the Telnet Botnets. *Journal of Universal Computer Science*, 25(11), pp. 1417-1436.
- Baykara, M. & Das, R., 2018. A novel honeypot based security approach for real-time intrusion detection and prevention system. *Journal of Information Security and Applications*, Volume 41, p. 105.
- Butwall, M., Ranka, P. & Shah, S., 2019. Python in Field of Data Science: A Review. *International Journal of Computer Applications*, 178(49), pp. 20-24.
- Chen, R.-C., Dewi, C., Huang, S.-w. & Caraka, R. E., 2020. Selecting critical features for data classification based on machine learning methods. *Journal of Big Data*, Volume 52, p. 7.
- Collins, M., 2017. *Network Security Through Data Analysis*. 2nd ed. Sebastopol: O'Reilly Media, Inc..
- Delen, D. & Demirkan, H., 2013. Data, information and analytics as services. *Decision Support Systems*, 55(1), pp. 359-363.
- dionaea, 2020. *dionaea Documentation*. [Online]
Available at: <https://media.readthedocs.org/pdf/dionaea/latest/dionaea.pdf>
[Accessed 22 10 2021].
- Enterprise, J., 2019. *Python untuk Programmer Pemula*. 1 ed. s.l.:Elex Media Komputindo.



- Farjad, S. M. & Arfeen, A., 2020. *Cluster Analysis and Statistical Modeling: A Unified Approach for Packet Inspection*. Islamabad, 2020 International Conference on Cyber Warfare and Security (ICCWS), pp. 1-7.
- Grout, J., Frederic, J., Corlay, S. & Bugnion, P., 2016. *ipywidgets: Interactive HTML Widgets*. [Online]
Available at: <https://github.com/jupyter-widgets/ipywidgets>
[Accessed 23 September 2021].
- Hermawan, D. S., S. & Risqiwati, D., 2020. Analisa Real-Time Data log honeypot menggunakan Algoritma K-Means pada serangan Distributed Denial of Service. *Jurnal Repositor*, 2(5), p. 541.
- Heydt, M., 2017. *Learning pandas*. 2 ed. s.l.:Packt Publishing.
- Huang, Z., 1998. Extensions to the k-Means Algorithm for Clustering Large Data Sets with Categorical Values. *Data Mining and Knowledge Discovery*, Volume 2, pp. 283-304.
- Jang-Jaccard, J. & Nepal, S., 2014. A survey of emerging threats in cybersecurity. *Journal of Computer and System Sciences*, Volume 80, pp. 973-993.
- Joshi, R., 2016. *Exsilio Solutions*. [Online]
Available at: <https://blog.exsilio.com/all/accuracy-precision-recall-f1-score-interpretation-of-performance-measures/>
[Accessed 25 10 2021].
- Khandaker, M. S., Hussain, A. & Ahmed, M., 2018. Effectiveness of Hard Clustering Algorithms for Securing Cyber Space. *International Conference on Smart Grid and Internet of Things*, Volume 256, pp. 113-120.
- Kox, H. L., 2013. Cybersecurity in the Perspective of Internet Traffic Growth. *MPRA Paper*, pp. 1-16.
- Kulkarni, A., Chong, D. & Batarseh, F. A., 2020. 5 - Foundations of data imbalance and solutions for a data democracy. In: F. A. Batarseh & R. Yang, eds. *Data Democracy: Data Democracy: At the Nexus of Artificial Intelligence, Software Development, and Knowledge Engineering*. s.l.:Academic Press, pp. 83-106.
- Lehrer, C. et al., 2018. How Big Data Analytics Enables Service Innovation: Materiality, Affordance, and the Individualization of Service. *Journal of Management Information Systems*, Volume 35, pp. 424-460.
- Lepenioti, K., Bousdekis, A., Apostolou, D. & Mentzas, G., 2020. Prescriptive analytics: literature review and research challenges. *International Journal of Information Management*, Volume 50, pp. 57-70.
- Lester, J. N., Cho, Y. & Lochmiller, C. R., 2020. Learning to Do Qualitative Data Analysis: A Starting Point. *Human Resource Development Review*, 19(1), pp. 94-106.



- Lu, X., Zhang, H. & Huang, K., 2020. Improving Investment Return Through Analyzing and Mining Sales Data. In: J. He, et al. eds. *Data Science*. Ningbo, China: Springer Nature Singapore Pte Ltd., pp. 112-118.
- Mertz, D., 2021. *Cleaning Data foEffective Data Science: Doing the other 80% of the work with Python, R, and command-line tools*. s.l.:Packt Publishing.
- Miranda-Calle, D. J., G., R. V., Dhawan, P. & Churi, P., 2021. Exploratory data analysis for cybersecurity. *World Journal of Engineering*, 18(5), pp. 734-749.
- Molin, S., 2021. *Hands-On Data Analysis with Pandas*. 2 ed. Birmingham: Packt Publishing Ltd..
- Moore, C. & Al-Nemrat, A., 2015. *An Analysis of Honeygot Programs amd the Attack Data Collected*. s.l., Springer International Publishing, p. 229.
- Nelli, F., 2018. *Python Data Analytics*. 2 ed. s.l.:Apress.
- Olding, P. B. & Wolfe, P., 2014. Inference for Graph and Networks Adapting Classical Tools to Modern Data. In: N. Adams & N. Heard, eds. *Data Analysis for Network Cyber-Security*. London: Imperial College Press, pp. 1-30.
- Popat, S. K. & M., E., 2014. Review and Comparative Study of Clustering Techniques. *International Journal of Computer Science and Information Technologies*, 5(1), pp. 805-812.
- Portalatin, M. et al., 2021. *Data Analytics for Cyber Risk Analysis Utilizing Cyber Incident Datasets*. Charlottesville, 2021 Systems and Information Engineering Design Symposium (SIEDS), pp. 1-6.
- Randles, B. M., Pasquetto, I. V., Golshan, M. S. & Borgman, C. L., 2017. Using the Jupyter Notebook as a Tool for Open Science: An Empirical Study. *2017 ACM/IEEE Joint Conference on Digital Libraries (JCDL)*, pp. 1-2.
- Reyes, P. C., 2019. *Statistical learning with high-cardinality string categorical variables*, Palaiseau: Université Paris-Saclay.
- Saikawa, K. & Klyuev, V., 2019. Detection and Classification of Malicious Access using a Dionaea Honeygot. *2019 10th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications (IDAACS)*, p. 845.
- Santos, J. M. & Embrechts, M., 2009. *On the Use of the Adjusted Rand Index as a Metric for Evaluating Supervised Classification*. Berlin, Springer, Berlin, Heidelberg.
- Sarker, I. H. et al., 2020. Cybersecurity data science: an overview from machine learning perspective. *Journal of Big Data*, 7(41), pp. 1-29.
- Scitovski, R., Sabo, K., Martínez-Álvarez, F. & Ungar, Š., 2021. *Cluster Analysis and Applications*. Switzerland: Springer Nature Switzerland AG.



- Sethia, V. & Jeyasekar, A., 2019. Malware Capturing and Analysis using Dionaea HoneyPot. *2019 International Carnahan Conference on Security Technology (ICCST)*, p. 3.
- Shavitt, Y., 2011. A Geolocation Databases Study. *IEEE Journal on Selected Areas in Communications*, 29(10), pp. 2044-2057.
- Stančin & Jović, A., 2019. An overview and comparison of free Python libraries for data mining and big data analysis. *2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO)*, p. 977.
- Sumana, B. V. & Santhanam, T., 2016. Prediction of Imbalanced Data Using Cluster Based Approach. *Asian Journal of Information Technology*, 15(16), pp. 3022-3042.
- Tartakovsky, G. A., 2014. Rapid Detection of Attacks in Computer Networks by Quickest ChangePoint Detection Methods. In: N. Adams & N. Heard, eds. *Data Analysis for Network Cyber-Security*. London: Imperial College Press, pp. 33-34.
- Toomey, D., 2017. *Jupyter for Data Science: Exploratory analysis, statistical modeling, machine learning, and data visualization with Jupyter*. s.l.:Packt Publishing.
- Umargono, E., Suseno, E. J. & K, V. G. S., 2020. *K-Means Clustering Optimization using the Elbow Method and Early Centroid Determination Based-on Mean and Median*. s.l., Proceedings of the International Conferences on Information System and Technology (CONRIST 2019), pp. 234-240.
- VanderPlas, J., 2016. *Python Data Science Handbook: Essential Tools for Working with Data*. 1 ed. s.l.:O'Reilly Media.
- Wang, L., Jones & Randy, 2020. Big Data Analytics in Cyber Security: Network Traffic and Attacks. *Journal of Computer Information System*, pp. 1-8.
- Waskom, M. L., 2021. seaborn: statistical data visualization. *Journal of Open Source Software*, 6(60), p. 3021.
- Wes, M., 2017. *Python for Data Analysis: Data Wrangling with Pandas, NumPy, and IPython*. 2 ed. s.l.:O'Reilly Media.
- Wibawa, G. H. P., Sasmita, I. G. M. A. & Raharja, I. M. S., 2020. Analisis Data Log HoneyPot Menggunakan Metode K-Means Clustering. *Jurnal Ilmiah Merpati*, 8(1).
- Wulandari, W. A., 2018. Analisis Network Forensics menggunakan HoneyPot pada Jaringan Layanan Public Cloud Computing. *Jurnal Teknologi Informasi Universitas Lambung Mangkurat (JTIULM)*, 3(1), pp. 18-25.
- Yasmin, M. S., 2020. *Exploratory Data Analysis of Phishing Sites to Identify Most Important Features to Detect a Phishing Site*, Dhaka: Computer Science and Engineering Daffodil Internation University.



UNIVERSITAS
GADJAH MADA

Yugitama, R., Kartika Rachman, P. P. & S., 2020. Efisiensi Monitoring Honeypot Dengan Menggunakan Visualisasi Dan Otomatisasi Laporan Log Serangan. *Jurnal IT Media IT SMIK Handayani*, 10(3), pp. 245-252.