



















- [12] McInnes et al, (2017), hdbscan: Hierarchical density based clustering, *Journal of Open Source Software*, 2(11), 205, doi:10.21105/joss.00205
- [13] L. McInnes, J. Healy and S. Astels, "hdbscan: Hierarchical density based clustering", *The Journal of Open Source Software*, vol. 2, no. 11, p. 205, 2017. Available: 10.21105/joss.00205.HDBSCAN; Copyright 201, Leland McInnes, John Healy Steve Astels Revision 109797c7.
- [14] R. Jain, M. Gupta, S. Taneja and D. Hemanth, "Deep learning based detection and analysis of COVID-19 on chest X-ray images", *Applied Intelligence*, vol. 51, no. 3, pp. 1690-1700, 2020. Available: 10.1007/s10489-020-01902-1.
- [15] V. Omanashvili, "JSON Generator – Tool for generating random data", *JSON Generator*, 2021. [Online]. Available: <https://www.json-generator.com/>.
- [16] "Building a Simple Contact Tracing Model Using the DBSCAN Algorithm", *Medium*, 2021. [Online]. Available: <https://medium.com/swlh/building-a-simple-contact-tracingmodel-using-the-dbscan-algorithm-5ea796d7afdc>.
- [17] M. Ester, H. Kriegel, J. Sander, and X. Xu, "A density-based algorithm for discovering clusters in large spatial databases with noise," in *Proc. 2nd Int. Conf. Knowledge Discovery and Data Mining (KDD'96)*, 1996, pp. 226–231.
- [18] Sarki R, Ahmed K, Wang H, Zhang Y. Automated detection of mild and multi-class diabetic eye diseases using deep learning. *Health Inf Sci Syst.* 2020 Oct 8;8(1):32. doi: 10.1007/s13755-020-00125-5. PMID: 33088488; PMCID: PMC7544802.