

DAFTAR PUSTAKA

- [1] The Editors of Encyclopaedia Britannica, “Industrial Revolution,” *Encyclopaedia Britannica*, 2019. [Online]. Available: <https://www.britannica.com/event/Industrial-Revolution>. [Accessed: 13-Dec-2019].
- [2] C. Roser, “A Critical Look at Industry 4.0,” *All About Lean*, 2015. [Online]. Available: A Critical Look at Industry 4.0.
- [3] K. Schwab, “The Fourth Industrial Revolution,” *Encyclopedia Britannica*, 2018. [Online]. Available: <https://www.britannica.com/topic/The-Fourth-Industrial-Revolution-2119734>. [Accessed: 15-Dec-2019].
- [4] S. J. Russell and P. Norvig, *Artificial Intelligence: A Modern Approach*. Upper Saddle River, New Jersey: Prentice Hall, 2009.
- [5] R. Khanna and M. Awad, *Efficient Learning Machines*. Apress, Berkeley, CA, 2015.
- [6] S. Byford, “Apple buys Emotient, a company that uses AI to read emotions,” *TheVerge*, 2016. [Online]. Available: <https://www.theverge.com/2016/1/7/10731232/apple-emotient-ai-startup-acquisition>. [Accessed: 04-Sep-2019].
- [7] J. Constine, “Like by smiling? Facebook acquires emotion detection startup FacioMetrics,” *techcrunch.com*, 2016. [Online]. Available: <https://techcrunch.com/2016/11/16/facial-gesture-controls/>. [Accessed: 04-Sep-2019].
- [8] N. Gilliland, “How brands are using emotion-detection technology,” *Econsultancy*, 2018. [Online]. Available: <https://econsultancy.com/how-brands-are-using-emotion-detection-technology/>. [Accessed: 02-Sep-2019].
- [9] P. M. A. Desmet, M. H. Vastenburg, D. Van Bel, and N. Romero, “Pick-A-Mood development and application of a pictorial mood-reporting instrument,” *8th Int. Conf. Des. Emot. Out Control - Proc.*, no. May 2014, 2012.
- [10] A. Landowska, G. Brodny, and M. R. Wrobel, “Limitations of emotion recognition from facial expressions in e-learning context,” *CSEDU 2017 - Proc. 9th Int. Conf. Comput. Support. Educ.*, vol. 2, no. January, pp. 383–389, 2017.
- [11] W. Chijioke, “Predicting Listener’S Mood Based on Music Genre: an Adapted

- Reproduced Model of Russell and Thayer,” *J. Technol. Manag. Bus.*, vol. 4, no. 1, pp. 39–58, 2017.
- [12] H. McIntyre, “Americans Are Spending More Time Listening To Music Than Ever Before,” *Forbes*, 2017. [Online]. Available: <https://www.forbes.com/sites/hughmcintyre/2017/11/09/americans-are-spending-more-time-listening-to-music-than-ever-before/#4c0321ba2f7f>. [Accessed: 02-Sep-2019].
- [13] E. Anggraini, “Spotify: Orang Indonesia Dengarkan Musik 3 Jam Sehari,” *CNN Indonesia*, 2017. [Online]. Available: <https://www.cnnindonesia.com/teknologi/20170510150652-185-213843/spotify-orang-indonesia-dengarkan-musik-3-jam-sehari>. [Accessed: 29-Dec-2019].
- [14] Spotify, “Web API, Spotify for Developers,” *Spotify*. [Online]. Available: <https://developer.spotify.com/documentation/web-api/>. [Accessed: 13-Nov-2019].
- [15] Genius, “Genius API,” *Genius.com*. [Online]. Available: <https://docs.genius.com/#/getting-started-h1>. [Accessed: 13-Nov-2019].
- [16] I. Garnesia, “Spotify Nomor Satu di Dunia, tapi Kok Merugi Terus?,” *TirtoID*, 2019. [Online]. Available: <https://tirto.id/spotify-nomor-satu-di-dunia-tapi-kok-merugi-terus-eeNj>. [Accessed: 12-Dec-2019].
- [17] Josina, “Pengguna Aktif Bulanan Spotify Tembus 200 Juta,” *Detik Inet*, 2019. [Online]. Available: <https://inet.detik.com/cyberlife/d-4385587/pengguna-aktif-bulanan-spotify-tembus-200-juta>. [Accessed: 19-Oct-2019].
- [18] A. Zenonos, A. Khan, G. Kalogridis, S. Vatsikas, T. Lewis, and M. Sooriyabandara, “HealthyOffice: Mood recognition at work using smartphones and wearable sensors,” *2016 IEEE Int. Conf. Pervasive Comput. Commun. Work. PerCom Work. 2016*, no. March, 2016.
- [19] M. A. Y. Mair Muteeb Javaid, S. S. Quratulain Zahid Sheikh, Mian M. Awais, and M. Khalid, “Real-Time EEG-based Human Emotion Recognition,” vol. 9492, no. November, 2015.
- [20] L. W. Astuti, A. Rachmat C., and Y. Lukito, “Implementasi Algoritma Naïve Bayes Menggunakan Isear Untuk Klasifikasi Emosi Lirik Lagu Berbahasa Inggris,” *J. Inform.*, vol. 14, no. 1, 2017.



- [21] K. R. Tan, M. L. Villarino, and C. Maderazo, "Automatic music mood recognition using Russell's twodimensional valence-arousal space from audio and lyrical data as classified using SVM and Naïve Bayes," *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 482, no. 1, 2019.
- [22] D. Roth, "Multiclass Classification Binary to multiclass," pp. 1–13, 2016.
- [23] S. Voloshynovskiy, O. Koval, F. Beekhof, and T. Holotyak, "Multiclass classification based on binary classifiers: On coding matrix design, reliability and maximum number of classes," *Mach. Learn. Signal Process. XIX - Proc. 2009 IEEE Signal Process. Soc. Work. MLSP 2009*, no. June 2014, 2009.
- [24] Anonim, "Classification - Machine Learning," *Simplelearn*. [Online]. Available: <https://www.simplilearn.com/classification-machine-learning-tutorial>. [Accessed: 15-Dec-2019].
- [25] A. Somasundaram and U. S. Reddy, "Data Imbalance: Effects and Solutions for Classification of Large and Highly Imbalanced Data," *Proc. 1st Int. Conf. Res. Eng. Comput. Technol. (ICRECT 2016)*, no. November, pp. 28–34, 2016.
- [26] A. Sonak and R. A. Patankar, "A Survey on Methods to Handle Imbalance Dataset," *Int. J. Comput. Sci. Mob. Comput.*, vol. 4, no. 11, pp. 338–343, 2015.
- [27] P. Kaur and A. Gosain, "Comparing the Behavior of Oversampling Versus Undersampling_2018," vol. 653, no. January, 2018.
- [28] J. T. Raj, "What To Do When Your Classification Data is Imbalanced," *Toward Data Science*, 2019. [Online]. Available: <https://towardsdatascience.com/what-to-do-when-your-classification-dataset-is-imbalanced-6af031b12a36>. [Accessed: 15-Dec-2019].
- [29] D. Anjani, "Analisis Kemiripan Dokumen Tugas Akhir Untuk Penilaian Originalitas," *Bandung*, vol. 30, no. 3, pp. 243–250, 2015.
- [30] J. Tang, Y. C. Hang Li, and Z. Tang, "Email Data Cleaning," *Proc. Elev. ACM SIGKDD Int. Conf. Knowl. Discov. data Min.*, pp. 489–498, 2005.
- [31] I. Zulfa and E. Winarko, "Sentimen Analisis Tweet Berbahasa Indonesia Dengan Deep Belief Network," *IJCCS (Indonesian J. Comput. Cybern. Syst.*, vol. 11, no. 2, p. 187, 2017.



- [32] S. K. Lidya, O. S. Sitompul, and S. Efendi, "Sentiment Analysis Pada Teks Bahasa Indonesia Menggunakan Support Vector Machine (Svm)," *Semin. Nas. Teknol. dan Komun.* 2015, vol. 2015, no. Sentika, pp. 1–8.
- [33] D. S. Indraloka and B. Santosa, "Penerapan Text Mining untuk Melakukan Clustering Data Tweet Shopee Indonesia," *J. Sains dan Seni ITS*, vol. 6, no. 2, pp. 6–11, 2017.
- [34] M. Myslín, S. H. Zhu, W. Chapman, and M. Conway, "Using twitter to examine smoking behavior and perceptions of emerging tobacco products," *J. Med. Internet Res.*, vol. 15, no. 8, 2013.
- [35] B. H. Iswanto and V. Poerwoto, "Sentiment analysis on Bahasa Indonesia tweets using Unigram models and machine learning techniques," *IOP Conf. Ser. Mater. Sci. Eng.*, vol. 434, no. 1, pp. 0–6, 2018.
- [36] M. R. Malarvizhi and A. S. Thanamani, "Comparison of Imputation Techniques after Classifying the Dataset Using Knn Classifier for the Imputation of Missing Data," vol. 3, pp. 101–104, 2013.
- [37] A. Géron, *Hands-on machine learning with Scikit-Learn and TensorFlow : concepts, tools, and techniques to build intelligent systems.* 2017.
- [38] A. A. Lutfi, A. E. Permanasari, and S. Fauziati, "Corrigendum: Sentiment Analysis in the Sales Review of Indonesian Marketplace by Utilizing Support Vector Machine," *J. Inf. Syst. Eng. Bus. Intell.*, vol. 4, no. 2, p. 169, 2018.
- [39] R. Kohavi, "A Study of Cross-Validation and Bootstrap for Accuracy Estimation and Model Selection," *Int. Jt. Conf. Artif. Intell.*, vol. 118, no. 4, pp. 456–461, 1995.
- [40] A. Wibowo, "10 Fold-Cross Validation," *Binus University*, 2017. [Online]. Available: <https://mti.binus.ac.id/2017/11/24/10-fold-cross-validation/>. [Accessed: 15-Dec-2019].
- [41] M. Aly, "Survey on multiclass classification methods," *Neural Netw*, no. November, pp. 1–9, 2005.
- [42] S. S. Cross, R. F. Harrison, and R. L. Kennedy, *Introduction to neural networks*, vol. 346, no. 8982. 1995.
- [43] A. S. Nur, N. H. Mohd Radzi, and A. O. Ibrahim, "Artificial Neural Network Weight Optimization: A Review," *TELKOMNIKA Indones. J. Electr. Eng.*, vol. 12, no. 9, pp.

- 6897–6902, 2014.
- [44] V. Kecman, “Support Vector Machines – An Introduction Support Vector Machines – An Introduction,” no. May, 2014.
 - [45] Larhman, “Support Vector Machine,” *Wikipedia*, 2018. [Online]. Available: https://en.wikipedia.org/wiki/Support-vector_machine. [Accessed: 15-Dec-2019].
 - [46] M. Kattan, H. Ishwaran, and J. S. Rao, “Decision Tree: Introduction,” *Encycl. Med. Decis. Mak.*, pp. 323–328, 2012.
 - [47] B. Raj, “Decision Trees,” *MLSP*, 2016. [Online]. Available: <https://www.cs.cmu.edu/~bhiksha/courses/10-601/decisiontrees/>. [Accessed: 15-Dec-2019].
 - [48] S. Raschka, “Naive Bayes and Text Classification I - Introduction and Theory,” pp. 1–20, 2014.
 - [49] J. Vanderplas, *Python Data Science Handbook*. O’Reilly Media, 2016.
 - [50] G. Guo, H. Wang, D. Bell, Y. Bi, and K. Greer, “KNN model-based approach in classification,” *Lect. Notes Comput. Sci. (including Subser. Lect. Notes Artif. Intell. Lect. Notes Bioinformatics)*, vol. 2888, pp. 986–996, 2003.
 - [51] A. R. Deepthi, “KNN visualization in just 13 lines of code,” *Toward Data Science*, 2019. [Online]. Available: <https://towardsdatascience.com/knn-visualization-in-just-13-lines-of-code-32820d72c6b6>. [Accessed: 15-Dec-2019].
 - [52] I. Iguyon and A. Elisseeff, “An introduction to variable and feature selection,” *J. Mach. Learn. Res.*, vol. 3, pp. 1157–1182, 2003.
 - [53] J. Hua, Z. Xiong, J. Lowey, E. Suh, and E. R. Dougherty, “Optimal number of features as a function of sample size for various classification rules,” *Bioinformatics*, vol. 21, no. 8, pp. 1509–1515, 2005.
 - [54] M. J. Zaki and W. Meira, Jr, “Dimensionality Reduction,” *Data Min. Anal.*, pp. 183–214, 2018.
 - [55] V. Spruyt, “The Curse of Dimensionality in classification,” *Computer vision for dummies*, 2014. [Online]. Available: <https://www.visiondummy.com/2014/04/curse-dimensionality-affect-classification/>. [Accessed: 15-Dec-2019].



- [56] A. Abraham *et al.*, “Machine learning for neuroimaging with scikit-learn,” *Front. Neuroinform.*, vol. 8, no. FEB, pp. 1–10, 2014.
- [57] S. K. Gajawada, “ANOVA for Feature Selection in Machine Learning,” *Toward Data Science*, 2019. [Online]. Available: <https://towardsdatascience.com/anova-for-feature-selection-in-machine-learning-d9305e228476>. [Accessed: 10-Nov-2019].
- [58] Z. Ben Xu, H. Zhang, Y. Wang, X. Y. Chang, and Y. Liang, “L1/2 regularization,” *Sci. China, Ser. F Inf. Sci.*, vol. 53, no. 6, pp. 1159–1169, 2010.
- [59] H. S. Park, “Multinomial classification and application of ML,” *Slideshare*, 2017. [Online]. Available: <https://www.slideshare.net/ssusereab2f3/multinomial-classification-amp-application-of-ml>.
- [60] Gregory Piatetsky, “Python vs R – Who Is Really Ahead in Data Science, Machine Learning?,” *KDnuggets*, 2017. [Online]. Available: <https://www.kdnuggets.com/2017/09/python-vs-r-data-science-machine-learning.html>. [Accessed: 12-Nov-2019].
- [61] Spotify, “Get a Track,” *Spotify*. [Online]. Available: <https://developer.spotify.com/documentation/web-api/reference/tracks/get-track/>. [Accessed: 12-Nov-2019].
- [62] Spotify, “Get Audio Features for a Track,” *Spotify*. [Online]. Available: <https://developer.spotify.com/documentation/web-api/reference/tracks/get-audio-features/>. [Accessed: 10-Oct-2019].
- [63] K. S. Publication and R. E, “In Defense of One-Vs-All Classification,” *J. Mach. Learn. Res.*, vol. 5, pp. 2–6, 2004.
- [64] Scikit Learn, “Varying regularization in Multi-layer Perceptron,” *Scikit Learn*. [Online]. Available: https://scikit-learn.org/stable/auto_examples/neural_networks/plot_mlp_alpha.html. [Accessed: 10-Nov-2019].
- [65] P. A. Octaviani, Y. Wilandari, and D. Ispriyanti, “PENERAPAN METODE KLASIFIKASI SUPPORT VECTOR MACHINE (SVM) PADA DATA AKREDITASI SEKOLAH DASAR (SD) DI KABUPATEN MAGELANG,” *J. GAUSSIAN Vol. 3, No. 4*, vol. 3, no. 8, pp. 811–820, 2014.



- [66] G. Wu, S. Sanner, and R. F. S. C. Oliveira, “Bayesian model averaging naive bayes (BMA-NB): Averaging over an exponential number of feature models in linear time,” *Proc. Natl. Conf. Artif. Intell.*, vol. 4, pp. 3094–3100, 2015.
- [67] R. G. Mantovani, T. Horváth, R. Cerri, S. B. Junior, J. Vanschoren, and A. C. P. de L. F. de Carvalho, “An empirical study on hyperparameter tuning of decision trees,” no. December, 2018.
- [68] M. Chih-Min, Y. Wei-Shui, and C. Bor-Wen, “How the Parameters of K-Nearest Neighbor Algorithm Impact on the Best Classification Accuracy-In case of Parkinson Dataset,” *Journal of Applied Sciences*, vol. 14, no. 2. pp. 171–176, 2014.
- [69] Spotify, “Get Current User’s Recently Played Tracks,” *Spotify*. [Online]. Available: <https://developer.spotify.com/documentation/web-api/reference/player/get-recently-played/>. [Accessed: 02-Nov-2019].