REFERENCES

[1]   Wikipedia contributors, "Speech recognition," Wikipedia, The Free Encyclopedia,https://en.wikipedia.org/w/index.php?title=Speech_recogniti on&oldid=928341557 (accessed November 30, 2019).

[2]   S. I. Levitan, T. Mishra, and S. Bangalore, "Automatic identification of gender from speech," in Proceeding of Speech Prosody, 2016, pp. 84–88.

[3]   Why is children's Automatic Speech Recognition special?
        <https://www.italk2learn.com/automatic-speech-recognition-childrens-speech-special/>

[4]   Machine Learning
        <https://www.webopedia.com/TERM/M/machine-learning.html>

[5]   Machine Learning
        <https://en.wikipedia.org/wiki/Machine_learning>

[6]   J. Karhunen, J. Joutsensalo, Generalizations of principal component analysis, optimization problems, and neural networks, Neural Netw. 8(4) (1995) 549–562.

[7]   B. A. Chagas, D. F. Redmiles, and C. S. de Souza, "End-user development for the Internet of Things OR How can a (smart) light bulb be so complicated?," in 2017 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC), 2017, pp. 273-277.

[8]   Wikipedia contributors, "Computational linguistics," Wikipedia, The Free Encyclopedia,
        https://en.wikipedia.org/w/index.php?title=Computational_linguistics&oldi d=928569588 (accessed November 30, 2019).

[9]   Rai P, Khanna P: Appearance based gender classification with PCA and (2D) 2 PC A on approximation face image. In: Industrial and Information Systems (ICIIS), 2014 9th International Conference on: 2014 IEEE; 2014: 1-6.

[10]   De Mori, R.: Computer Models of Speech Using Fuzzy Algorithms. Plenum, New York (1983).

[11]   L. Rabiner and B.-H. Juang, Fundamentals of Speech Recognition, Prentice Hall, Englewood Cliffs, NewJersey,   1993.

[12]   X. Huang, A. Acero and H-W. Hon, Spoken Language Processing: A Guide to Theory, Algorithm and System Development, Prentice Hall PTR, NJ, 2001, pages 853-855.

[13]   S.Lee,A.Potamianos,S.S.Narayanan, Acoustics of children's speech: developmental changes of temporal and spectral parameters,J.Acoust.Soc.Am.105 (3)(1999)1455–1468.

[14]   D. Giuliani and M. Gerosa, "Investigating Recognition of Children's Speech, Proc. ICASSP, April 2003.

[15]   L. Lee and R. Rose,"Speaker normalization using efficient frequency warping procedures,"Proc. IEEE ICASSP, pp. 353–356, 1996.

[16]   M. Benzeghibaet al., "Automatic speech recognition and speech variability: A review.," Speech Commun., vol. 49, no. 10–11, pp. 763–786,2007.

[17]   Wu, Y.; Zhuang, Y.; Long, X.; Lin, F.; and Xu, W. 2015. Human gender classification: A review. arXiv preprint arXiv:1507.05122.

[18]   Bruce V, Burton AM, Hanna E,Healey P, Mason O, Coombes A, et al. Sex-discrimination —how do we tell the difference between male and female faces.Perception.1993;22:131–152.PMID:8474840.

[19]   Hill, H. & Johnston, A. Categorizing sex and identity from the biological motion of faces. Curr. Biol.11, 880–885 (2001).

[20]   O'Toole, A.J., Roark, D.A., Abdi, H. (2002). Recognizing moving faces: a psychological and neural synthesis. Trends Cogn. Sci. 6(6): 261-266. doi:10.1016/S1364-6613(02)01908-36613(02)01908.

[21]   Golomb, Beatrice A., Lawrence, David T. and Sejnowski, Terrence J.. "SEXNET: A Neural Network Identifies Sex From Human Faces.." Paper presented at the meeting of the NIPS, 1990.

[22]   Thomas, Vince & Chawla, Nitesh & Bowyer, Kevin & Flynn, Patrick. (2007). Learning to predict gender from iris images. 1 - 5. 10.1109/BTAS.2007.4401911.

[23]   G. Amayeh, G. Bebis, and M. Nicolescu. Gender classification from hand shape. In IEEE Computer Society Conference on Computer Vision and Pattern Recognition Worbhops. 2008.

[24]   Y. Dong and D. Woodard. Eyebrow shape-based features for biometric recognition and gender classification: A feasibility study. In International Joint Conference on Biometrics,2011.

[25]   P. Nguyen, D. Tran, T. Le, X. Huang, and W. Ma, "Age and Gender Classification Using EEG Paralinguistic Features," the 6th International IEEE EMBS Conference on Neural Engineering, 2013, in press.

[26]   Tripathy, RK & Acharya, Ashutosh & Choudhary, Sumit. (2012). Gender Classification from ECG Signal Analysis using Least Square Support Vector Machine. American Journal of Signal Processing. 2. 145-149. 10.5923/j.ajsp.20120205.08.

[27]   Wixom, Barbara and Peter A. Todd. "A Theoretical Integration of User Satisfaction and Technology Acceptance." Information Systems Research 16 (2005): 85-102.

[28]   Tapia Farias, Juan & Arellano, Claudia. (2019). Gender Classification from Iris Texture Images Using a New Set of Binary Statistical Image Features.

[29]   Shubhendu, S., and Vijay, J. (2013). Applicability of artificial intelligence in different fields of life.Intl. J. Sci. Eng. Res.1, 2347–3878.

[30]   Portion of a Given Image Using Color Processing", International Journal of Engineering Research & Technology (IJERT) ISSN: 2278-0181 Vol. 1 Issue 10,December- 2012.

[31]   R. J. Durrant and A. Kaban, "Compressed Fisher linear discriminant analysis: Classification of randomly projected data," inProc. ACM Int.Conf. Knowledge Discovery and Data Mining, Jul. 2010, pp. 1119–1128.

[32]   S Wold, K Esbensen and P Geladi, Principal Component Analysis, Chemometrics and Intelligent Laboratory Systems, Vol.2, pp.37–52, 1987.

[33]   M. D. Zeiler and R. Fergus, "Visualizing and understanding convolutional networks," in Computer Vision–ECCV 2014, pp. 818–833,Springer, 2014.

[34]   C. Szegedy, W. Liu, Y. Jia, P. Sermanet, S. Reed, D. Anguelov, et al., "Going deeper with convolutions," in Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition, 2015, pp. 1-9.

[35]   A. Krizhevsky, et al. ImageNet classification with deep convolutional neural networks. In Proceedings of the Advances in Neural Information Processing Systems, December 2012.

[36]   Fok Hing Chi Tivive and A. Bouzerdoum, "A gender recognition system using shunting inhibitory convolutional neural networks,"International Joint

Conference on Neural Networks, pp. 5336–5341, 0-0 2006.

[37] Zhang H., Zhu Q., Jia X. (2015) An Effective Method for Gender Classification with Convolutional Neural Networks. In: Wang G., Zomaya A., Martinez G., Li K. (eds) Algorithms and Architectures for Parallel Processing. ICA3PP 2015. Lecture Notes in Computer Science, vol 9529. Springer, Cham.

[38] Xie, Zhihuai & Guo, Zhenhua & Qian, Chengshan. (2018). Palmprint Gender Classification by Convolutional Neural Network (CNN). IET Computer Vision. 12. 10.1049/iet-cvi.2017.0475.

[39] Shubhendu, Shukla and J. Frank Vijay. "Applicability of Artificial Intelligence in Different Fields of Life." (2013).

[40] S. Das, D. Nix, and M. Picbeny, "Improvements in Children's Speech Recognition Performance," in Proc. of ICASSP, Seattle,WA, May 1998.

[41] Wikipedia contributors, "Human voice," Wikipedia, The Free Encyclopedia, https://en.wikipedia.org/w/index.php?title=Human_voice&oldid=9235169 18 (accessed November 30, 2019).

[42] What makes human voices different from one another? <https://www.quora.com/What-makes-human-voices-different-from-one-another>

[43] Lee, S., Potamianos, A., & Narayanan, S. (1999). Acoustics of children's speech: Developmental changes of temporal and spectral parameters. The Journal of the Acoustical Society ofAmerica,105(3), 1455–1468.doi:10.1121/1.426686.

[44] Kazemzadeh, Abe, You, Hong, Iseli, Markus, Jones, Barbara, Cui, Xiaodong, Heritage, Margaret, Price, Patti, Andersen, Elaine, Narayanan, Shrikanth and Alwan, Abeer. "TBALL data collection: the making of a young children's speech corpus.." Paper presented at the meeting of the INTERSPEECH, 2005.

[45] Kraljic, T., & Samuel, A. G. (2007). Perceptual adjustments to multiple speakers. Journal of Memory and Language, 56(1),1–15. doi:10.1016/j.jml.2006.07.010.

[46] Khan, Isra & Farooqui, Ashhad & Ullah, Rafi & Emaduddin, Shah Muhammad. (2019). Robust Feature Extraction Techniques in Speech

Recognition: A Comparative Analysis.

[47]   Lara, José. (2005). A Method of Automatic Speaker Recognition Using Cepstral Features and Vectorial Quantization. 146-153. 10.1007/11578079_16.

[48]   Agrawal, Prateek & Shukla, A. & Tiwari, Ritu. (2009). Multi Lingual Speaker Recognition Using Artificial Neural Network. 10.1007/978-3-642-03156-4_1.

[49]   Ravikumar, K. M., Balakrishna Reddy, Ram Rajagopal and H. C. Nagaraj. "Automatic Detection of Syllable Repetition in Read Speech for Objective Assessment of Stuttered Disfluencies." (2008).

[50]   M. O. Oliveira and A. S. Bretas, "Application of Discrete Wavelet Transform for differential protection of power transformers," 2009 IEEE Bucharest PowerTech, Bucharest, 2009, pp. 1-8.

[51]   Lindsay, R.W. & Percival, Donald & Rothrock, D.Andrew. (1996). The discrete wavelet transform and the scale analysis of the surface properties of sea ice. Geoscience and Remote Sensing, IEEE Transactions on. 34. 771 - 787. 10.1109/36.499782.

[52]   Manhas, Pratima. (2018). Image processing by using different types of Discrete wavelet transform.

[53]   Breiman, Leo. Statistical Modeling: The Two Cultures (with comments and a rejoinder by the author). Statist. Sci. 16 (2001), no. 3, 199--231. doi:10.1214/ss/1009213726.

[54]   Turner, Claude & Joseph, Anthony. (2015). A Wavelet Packet and Mel-Frequency Cepstral Coefficients-Based Feature Extraction Method for Speaker Identification. Procedia Computer Science. 61. 416-421. 10.1016/j.procs.2015.09.177.

[55]   K.M. Ravikumar, R. Rajagopal, H.C. Nagaraj, An approach for objective assessment of stuttered speech using MFCC features, ICGST Int. J. Digital Signal Pro-cess. 9 (1) (2009) 19–24.

[56]   Dhineshkumar, R., Ganesh, A., & Sasikala, S. (2016). Speaker Identification System using Gaussian Mixture Model and Support Vector Machines (GMM-SVM) under Noisy Conditions. Indian Journal Of Science And Technology, 9(19). doi:10.17485/ijst/2016/v9i19/93870.

[57]   A. L. Samuel, "Some studies in machine learning using the game of checkers,"IBM J. Res. Develop., vol. 3, pp. 210–219, 1959.

[58]   Mitchell, Tom M.. Machine Learning. New York: McGraw-Hill, 1997.

[59]   Harnad, Stevan. (2008). The Annotation Game: On Turing (1950) on Computing, Machinery and Intelligence.

[60]   Roux, Nicolas & Bengio, Y. & Fitzgibbon, Andrew. (2011). Improving First and Second-Order Methods by Modeling Uncertainty.

[61]   TY - JOURAU - Bzdok, DaniloAU - Altman, NaomiAU - Krzywinski, MartinPY - 2018DA - 2018/04/01TI - Statistics versus machine learningJO - Nature MethodsSP - 233EP - 234VL - 15IS - 4AB - Statistics draws population inferences from a sample, and machine learning finds generalizable predictive patterns.SN - 1548-7105UR - https://doi.org/10.1038/nmeth.4642DO - 10.1038/nmeth.4642ID - Bzdok2018ER.

[62]   How is Machine Learning Different from Statistics and Why it Matters <https://towardsdatascience.com/how-is-machine-learning-different-from-statistics-and-why-it-matters-5a8ed539976>

[63]   Weak Supervision: The New Programming Paradigm for Machine Learning <https://dawn.cs.stanford.edu/2017/07/16/weak-supervision/>

[64]   Breiman, Leo. Statistical Modeling: The Two Cultures (with comments and a rejoinder by the author). Statist. Sci. 16 (2001), no. 3, 199--231. doi:10.1214/ss/1009213726.

[65]   James, G., Witten, D., Hastie, T., Tibshirani, R.: An Introduction to Statistical Learning (2013). ISBN 978-1-4614-7138-7.

[66]   Russell, Stuart J, Peter. Norvig and Ernest. Davis. 2010. Artificial Intelligence: A Modern Approach. Upper Saddle River, NJ: Prentice Hall.

[67]   M. Mohri, A. Rostamizadeh, A. Talwalkar, Foundations of Machine Learning, MIT Press, Cambridge, 2012.

[68]   Shalev-Shwartz, S., and S. Ben-David. 2014. Understanding Machine Learning: From Theory to Algorithm Cambridge University Press.10.1016/j.procs.2015.09.177.

[69]   E. Alpaydin.Introduction to Machine Learning. TheMIT Press, 3rd edition, 2014.

[70]   Fayek HM, Lech M, Cavedon L. Evaluating deep learning architectures for speech emotion recognition. Neural Networks. 2017;92:60–8.

[71]   Otterlo, Martijn van and Marco A Wiering. "Reinforcement Learning and Markov Decision Processes." Reinforcement Learning (2012).

[72]   Al-Anzi, F., AbuZeina, D.. "The Capacity of Mel Frequency Cepstral Coefficients for Speech Recognition". World Academy of Science, Engineering and Technology, Open Science Index 130, International Journal of Computer and Information Engineering (2017), 11(10), 1149 - 1153.

[73]   Safavi, Saeid & Russell, Martin & Jancovic, Peter. (2018). Automatic Speaker, Age-group and Gender Identification from Children's Speech. Computer Speech & Language. 50. 10.1016/j.csl.2018.01.001.

[74]   An introduction to Artificial Neural Networks (with example) <https://medium.com/@jamesdacombe/an-introduction-to-artificial-neural-networks-with-example-ad459bb6941b>

[75]   S. I. Levitan, T. Mishra, S. Bangalore, "Automatic identification of gender from speech", Proceeding of Speech Prosody, pp. 84-88, 2016.

[76]   Introduction to FeedForward Neural Networks <https://towardsdatascience.com/feed-forward-neural-networks-c503faa46620>

[77]   Decision Trees in Machine Learning <https://towardsdatascience.com/decision-trees-in-machine-learning-641b9c4e8052>

[78]   Random Forest Algorithm for Machine Learning <https://medium.com/capital-one-tech/random-forest-algorithm-for-machine-learning-c4b2c8cc9feb>

[79]   Wikipedia contributors, "Logistic regression," Wikipedia, The Free Encyclopedia,https://en.wikipedia.org/w/index.php?title=Logistic_regression&oldid=927770632 (accessed October 1, 2019).

[80]   Shubhendu, Shukla and J. Frank Vijay. "Applicability of Artificial Intelligence in Different Fields of Life." (2013).

[81] L.L. Eberhardt and J. M. Breiwick, "2012. Models for populationgrowthcurves,"ISRNEcology,vol.2012,ArticleID 815016, 7 pages, 2012.

[82] A. Ben-Hur, D. Horn, H. Siegelmann, and V. Vapnik, "Support vector clustering,"J. Mach. Learn. Res., vol. 2, pp. 125–137, 2001.

[83] Chih-Wei Hsu, Chih-Chung Chang, and Chih-Jen Lin. "A Practical Guide to Support Vector Classification". Dept.of Computer Sci.National Taiwan Uni, Taipei, 106, Taiwan http://www.csie.ntu.edu.tw/~cjlin 2007.

[84] E. Osuna, R. Freund, and F. Girosi. Support vector machines: training and applications. AI Memo 1602, MIT, May 1997.

[85] Hsu, Chih-Wei, Chang, Chih-Chung and Lin, Chih-Jen A Practical Guide to Support Vector Classification. , Department of Computer Science, National Taiwan University (2003).

[86] Wikipedia contributors, "Naive Bayes classifier," Wikipedia, The Free Encyclopedia,https://en.wikipedia.org/w/index.php?title=Naive_Bayes_cla ssifier&oldid=928274220 (accessed December 1, 2019).

[87] Gaussian Naive Bayes <https://medium.com/@LSchultebraucks/gaussian-naive-bayes-19156306079b>

[88] Implementation of Gaussian Naive Bayes in Python from scratch <https://hackernoon.com/implementation-of-gaussian-naive-bayes-in-python-from-scratch-c4ea64e3944d>