REFERENCES

Abadi, M. *et al.* (2016) 'TensorFlow: A System for Large-Scale Machine Learning TensorFlow: A system for large-scale machine learning', *12th USENIX Symposium on Operating Systems Design and Implementation (OSDI '16)*, pp. 265–284. doi: 10.1038/nn.3331.

Almuttairi, D. R. M. (no date) *What 's the Difference Between the Front- End and Back-End*?

Aslam, F. A. *et al.* (2015) 'Efficient Way Of Web Development Using Python And Flask', *International Journal of Advanced Research in Computer Science*, 6(2), pp. 54–57.

Bergstra, J. and Warde-farley, D. (2011) 'Theano : Deep Learning on GPUs with Python', *Journal of Machine Learning Research*, 1, pp. 1–4. doi: 10.1007/s10886-016-0765-0.

Chellapilla, K. et al. (2004) Computers beat Humans at Single Character Recognition in Reading based Human Interaction Proofs (HIPs).

Chowdhury, A. and Vig, L. (2018) *An Efficient End-to-End Neural Model for Handwritten Text Recognition*.

Cohen, G., Afshar, S. and Tapson, J. (2017) 'EMNIST : an extension of MNIST to handwritten letters'.

Deng, L. (2012) 'The MNIST Database of Handwritten Digit Images for Machine Learning Research', *IEEE SIGNAL PROCESSING MAGAZINE*, (November), pp. 141–142.

Deng, L. and Yu, D. (2013) *Deep Learning: Methods and Applications. Foundations and Trends in Signal Processing.*

DEVELOPMENT OF AN ON PREMISE INDONESIAN HANDWRITING RECOGNITION P. BACKEND SYSTEM USING OPEN SOURCE DEEP LEARNING SOLUTION FOR MOBILE USER

Fabo, P. R. *et al.* (2019) 'Mapping the Bentham Corpus : Concept-based Navigation', *Journal Of Data Mining and Digital Humanities.*

FKI University of Bern (no date) *IAM Handwriting Database — Computer Vision and Artificial Intelligence*. Available at: http://www.fki.inf.unibe.ch/databases/iam-handwriting-database (Accessed: 15 June 2019).

Gao, Y. and Glowacka, D. (2016) 'Deep Gate Recurrent Neural Network', in *JMLR:* Workshop and Conference Proceedings 63, pp. 350–365.

Google LLC (no date) *Google Handwriting Input - Apps on Google Play*. Available at:

https://play.google.com/store/apps/details?id=com.google.android.apps.handwriting.i me&hl=en (Accessed: 18 June 2019).

Grosicki, E., Carré, M. and Geoffrois, E. (2007) *RIMES evaluation campaign for handwritten mail processing*.

Hull, J. J. (1994) 'Database for handwritten text recognition research', *IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE*, 16(5). doi: 10.1109/34.291440.

Ilya Sutskever (2013) Training Recurrent Neural Networks, Computer Science University of Toronto.

Isaak, J., Society, I. C. and Hanna, M. J. (2018) 'User Data Privacy: Facebook, Cambridge Analytica, and Privacy Protection', *Computer*. IEEE, 51, pp. 56–59. doi: 10.1109/MC.2018.3191268.

Jia, Y. et al. (2014) 'Caffe', Proceedings of the ACM International Conference on Multimedia - MM '14, abs/1506.0, pp. 675–678. doi: 10.1145/2647868.2654889.

Kovalev, V., Kalinovsky, A. and Kovalev, S. (2016) 'Deep Learning with Theano, Torch, Caffe, TensorFlow, and Deeplearning4J: Which One Is the Best in Speed and Accuracy?', pp. 99–103. doi: 10.1111/j.1365-4632.2008.03582.x.

Kumar, P. et al. (2019) 'A Study of Various Text Augmentation Techniques for

Gianino Masasi

Relation Classification in Free Text A Study of Various Text Augmentation Techniques for Relation Classification in Free Text', (February). doi: 10.5220/0007311003600367.

Learned-miller, E. G. (2014) Introduction to Supervised Learning.

Lecun, Y., Bengio, Y. and Hinton, G. (2015) 'Deep learning', *Nature*, 521(7553), pp. 436–444. doi: 10.1038/nature14539.

Luebke, D. (2008) *CUDA* : *SCALABLE PARALLEL PROGRAMMING FOR HIGH-PERFORMANCE SCIENTIFIC COMPUTING*.

Meyen, N. (2017) *A Survey of Deep Learning Frameworks – Towards Data Science*. Available at: https://towardsdatascience.com/a-survey-of-deep-learning-frameworks-43b88b11af34 (Accessed: 15 May 2019).

Pallets (2019) *Werkzeug Documentation* (0.15.x).

Plamondon, R. and Srihari, S. N. (2000) 'On-Line and Off-Line Handwriting Recognition : A Comprehensive Survey', *IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE*, 22(1), pp. 63–84.

Rosebruck, A. (2018) *Deep Learning For Computer Vision 2nd Edition*. doi: 10.1360/zd-2013-43-6-1064.

Sak, H., Senior, A. and Beaufays, F. (2014) 'Long Short-Term Memory Recurrent Neural Network Architectures for Large Scale Acoustic Modeling', *INTERSPEECH*. doi: 10.1016/j.edumed.2017.01.001.

Serendi (no date) *Pen to Print*. Available at: https://www.pen-to-print.com/ (Accessed: 18 June 2019).

Shah, F. T. and Yousaf, K. (2017) 'Handwritten Digit Recognition Using Image Processing and Neural Networks', in *Proceedings of the World Congress on Engineering 2007*. DEVELOPMENT OF AN ON PREMISE INDONESIAN HANDWRITING RECOGNITION Page 75 of 76 BACKEND SYSTEM USING OPEN SOURCE DEEP LEARNING SOLUTION FOR MOBILE USER Shi, B., Bai, X. and Yao, C. (2015) An End-to-End Trainable Neural Network for Image-based Sequence Recognition and Its Application to Scene Text Recognition.

Smith, R. (2005) An Overview of the Tesseract OCR Engine.

Taneja, S. and Gupta, P. R. (2014) 'Python as a Tool for Web Server Application Development', *JIMS 8i-International Journal of Information, Communication and Computing Technology(IJICCT)*, II(I), pp. 77–83.

Zagoris, K. *et al.* (2014) 'Distinction between handwritten and machine-printed text based on the bag of visual words model', *Pattern Recognition*. Elsevier, 47(3), pp. 1051–1062. doi: 10.1016/j.patcog.2013.09.005.

Zhelev, S. and Rozeva, A. (2018) 'Data analytics and machine learning with Java', in *AIP Conference Proceedings*. doi: 10.1063/1.5082135.

SWISS GERMAN UNIVERSITY