

REFERENCES

- Advanced Guide to Inception v3 / Cloud TPU* /. (n.d.). Google Cloud. <https://cloud.google.com/tpu/docs/inception-v3-advanced>
- Auvinet, E., Rougier, C., Meunier, J., St-Arnaud, A., & Rousseau, J. (2010). Multiple cameras fall dataset. *Technical Report 1350, DIRO - Université De Montréal*.
- Beddiar, D. R., Oussalah, M., & Nini, B. (2022). Fall detection using body geometry and human pose estimation in video sequences. *Journal of Visual Communication and Image Representation*, 82, 103407. <https://doi.org/10.1016/j.jvcir.2021.103407>
- Boesch, G. (2022, January 17). *A Guide to OpenPose in 2022*. viso.ai. Retrieved June 1, 2022, from <https://viso.ai/deep-learning/openpose/#:%7E:text=OpenPose%20is%20a%20real%2Dtime,a%20total%20of%20135%20keypoints>.
- Bressler, N. (2022, September 3). *How to Check the Accuracy of Your Machine Learning Model*. Deepchecks. <https://deepchecks.com/how-to-check-the-accuracy-of-your-machine-learning-model/>
- Cao, Z., Hidalgo, G., Simon, T., Wei, S. E., & Sheikh, Y. (2021). OpenPose: Realtime Multi-Person 2D Pose Estimation Using Part Affinity Fields. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 43(1), 172–186. <https://doi.org/10.1109/tpami.2019.2929257>
- Chen, P. C., Chang, C. H., Chan, Y. W., Tasi, Y. T., & Chu, W. C. (2022). An Approach to Real-Time Fall Detection based on OpenPose and LSTM. *2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC)*. <https://doi.org/10.1109/compsac54236.2022.00250>
- Chen, Y., Du, R., Luo, K., & Xiao, Y. (2021). Fall detection system based on real-time pose estimation and SVM. *2021 IEEE 2nd International Conference on Big Data, Artificial Intelligence and Internet of Things Engineering (ICBAIE)*. <https://doi.org/10.1109/icbaie52039.2021.9390068>
- Donges, N. (2021, August 17). *A Guide to RNN: Understanding Recurrent Neural Networks and LSTM Networks*. Built In. Retrieved June 1, 2022, from <https://builtin.com/data-science/recurrent-neural-networks-and-lstm>
- Falls. (2021, April 26). <https://www.who.int/news-room/fact-sheets/detail/falls>
- GeeksforGeeks. (2021, October 18). *Libraries in Python*. <https://www.geeksforgeeks.org/libraries-in-python/>
- GeeksforGeeks. (2022, August 23). *Introduction to Recurrent Neural Network*. <https://www.geeksforgeeks.org/introduction-to-recurrent-neural-network/>
- Gmail API Overview* /. (n.d.). Google Developers. Retrieved August 10, 2022, from <https://developers.google.com/gmail/api/guides#:%7E:text=The%20Gmail%20API%20is%20a,mail%20extraction%2C%20indexing%2C%20and%20backup>
- Gonzalez, C. (2022, July 13). *What Is an IT Alerting System? Features, Principles and Best Practices*. OnPage. <https://www.onpage.com/what-is-an-it-alerting-systems-features-principles-and-best-practices/>

- Huang, Z., Liu, Y., Fang, Y., & Horn, B. K. P. (2018). Video-based Fall Detection for Seniors with Human Pose Estimation. *2018 4th International Conference on Universal Village (UV)*. <https://doi.org/10.1109/uv.2018.8642130>
- Jain, S., & Sitara, K. (2022). Human Fall Detection in Surveillance Videos. *2022 3rd International Conference for Emerging Technology (INCET)*. <https://doi.org/10.1109/incet54531.2022.9824941>
- Jenpoomjai, P., Wosri, P., Ruengittinun, S., Hu, C. L., & Chootong, C. (2019). VA Algorithm for Elderly's Falling Detection with 2D-Pose-Estimation. *2019 Twelfth International Conference on Ubi-Media Computing (Ubi-Media)*. <https://doi.org/10.1109/ubi-media.2019.00053>
- Just a moment. . .* (n.d.). <https://www.baeldung.com/cs/ml-loss-accuracy>
- Kumar, A. (2022, April 21). *Machine Learning - Sensitivity vs Specificity Difference*. Data Analytics. Retrieved May 30, 2022, from <https://vitalflux.com/ml-metrics-sensitivity-vs-specificity-difference/#Summary>
- Kwolek, B., & Kepski, M. (2014). Human fall detection on embedded platform using depth maps and wireless accelerometer. *Computer Methods and Programs in Biomedicine*, 117(3), 489–501. <https://doi.org/10.1016/j.cmpb.2014.09.005>
- Laskowski, N., & Contributor, T. (2021, July 12). *recurrent neural networks*. SearchEnterpriseAI. <https://www.techtarget.com/searchenterpriseai/definition/recurrent-neural-networks>
- Li, J., Zhao, Q., Yang, T., & Fan, C. (2021). An Algorithm of Fall Detection Based on Vision. *2021 6th International Symposium on Computer and Information Processing Technology (ISCIPPT)*. <https://doi.org/10.1109/iscipt53667.2021.00033>
- Lin, C. B., Dong, Z., Kuan, W. K., & Huang, Y. F. (2020). A Framework for Fall Detection Based on OpenPose Skeleton and LSTM/GRU Models. *Applied Sciences*, 11(1), 329. <https://doi.org/10.3390/app11010329>
- Machine learning education* /. (n.d.). TensorFlow. <https://www.tensorflow.org/resources/learn-ml>
- Martínez-Villaseñor, L., Ponce, H., Brieva, J., Moya-Albor, E., Núñez-Martínez, J., & Peñafort-Asturiano, C. (2019). UP-Fall Detection Dataset: A Multimodal Approach. *Sensors*, 19(9), 1988. <https://doi.org/10.3390/s19091988>
- Mishra, M. (2020, August 27). *Convolutional Neural Networks, Explained*. Towards Data Science. Retrieved November 18, 2022, from <https://towardsdatascience.com/convolutional-neural-networks-explained-9cc5188c4939>
- Pires, S., Rodrigues, S., Arokiadass, L. B., & Chopra, S. (2021). A Real-Time Position Monitoring System For Fall Detection and Analysis Using Human Pose Estimation. *2021 4th Biennial International Conference on Nascent Technologies in Engineering (ICNTE)*. <https://doi.org/10.1109/icnte51185.2021.9487724>

- Pokhrel, S. (2019, September 19). *Beginners Guide to Convolutional Neural Networks*. Towards Data Science. Retrieved November 18, 2022, from <https://towardsdatascience.com/beginners-guide-to-understanding-convolutional-neural-networks-ae9ed58bb17d>
- Prijono, L. S. P. D. B. (2018, April 4). Student Notes: Convolutional Neural Networks (CNN) Introduction. Belajar Pembelajaran Mesin Indonesia. <https://indoml.com/2018/03/07/student-notes-convolutional-neural-networks-cnn-introduction/>
- Raza, A., Yousaf, M. H., & Velastin, S. A. (2022). Human Fall Detection using YOLO: A Real-Time and AI-on-the-Edge Perspective. *2022 12th International Conference on Pattern Recognition Systems (ICPRS)*. <https://doi.org/10.1109/icprs54038.2022.9854070>
- Recurrent Neural Network (RNN) dan Gated Recurrent Unit (GRU). (2017, February 13). School of Computer Science. <https://socs.binus.ac.id/2017/02/13/rnn-dan-gru/>
- Safarzadeh, M., Alborzi, Y., & Ardekany, A. N. (2019). Real -time Fall Detection and Alert System Using Pose Estimation. *2019 7th International Conference on Robotics and Mechatronics (ICRoM)*. <https://doi.org/10.1109/icrom48714.2019.9071856>
- Team, K. (n.d.-a). *Keras documentation: About Keras*. <https://keras.io/about/>
- Team, K. (n.d.-b). *Keras documentation: GRU layer*. https://keras.io/api/layers/recurrent_layers/gru/
- Team, K. (n.d.-c). *Keras documentation: Video Classification with a CNN-RNN Architecture*. https://keras.io/examples/vision/video_classification/
- Vaughan, J. (2018, February 21). *TensorFlow*. SearchDataManagement. <https://www.techtarget.com/searchdatamanagement/definition/TensorFlow>
- Video classification / TensorFlow Lite*. (n.d.). TensorFlow. https://www.tensorflow.org/lite/examples/video_classification/overview
- WHO global report on falls prevention in older age. (2008, March 17). World Health Organization. Retrieved August 10, 2022, from <https://www.who.int/publications/i/item/9789241563536>
- Xinguo Yu. (2008). Approaches and principles of fall detection for elderly and patient. *HealthCom 2008 - 10th International Conference on E-Health Networking, Applications and Services*. <https://doi.org/10.1109/health.2008.4600107>
- Zhang, T., Zhou, S., Li, J., Sun, H., & Sun, X. (2022). Fall Detection Algorithm for the Elderly based on YOLOv5s. *2022 International Joint Conference on Information and Communication Engineering (JCICE)*. <https://doi.org/10.1109/jcice56791.2022.00045>