Research questions

1. Which dataset should be used for traffic sign detection and classification?
2. Which ML algorithms have been or are currently used for traffic sign detection and classification?
3. Which of the identified algorithms will be best suited for traffic sign detection and classification?
4. Which CNN architecture will be best suited, or should there be need to modify the architecture?
5. How was the accuracy of the model increased?

References (raw)



Romdhane, N.B., Mliki, H. and Hammami, M., 2016, June. An improved traffic signs recognition and tracking method for driver assistance system. In *2016 IEEE/ACIS 15th International Conference on Computer and Information Science (ICIS)* (pp. 1-6). IEEE.

Wang, Y., Zhang, D., Liu, Y., Dai, B. and Lee, L.H., 2019. Enhancing transportation systems via deep learning: A survey. *Transportation research part C: emerging technologies*, *99*, pp.144-163.

Changzhen, X., Cong, W., Weixin, M. and Yanmei, S., 2016, August. A traffic sign detection algorithm based on deep convolutional neural network. In *2016 IEEE International Conference on Signal and Image Processing (ICSIP)* (pp. 676-679). IEEE.

Swathi, M. and Suresh, K.V., 2017, February. Automatic traffic sign detection and recognition: A review. In *2017 International Conference on Algorithms, Methodology, Models and Applications in Emerging Technologies (ICAMMAET)* (pp. 1-6). IEEE.

Haloi, M., 2015. Traffic sign classification using deep inception based convolutional networks. *arXiv preprint arXiv:1511.02992*.

Zhang, J., Wang, W., Lu, C., Wang, J. and Sangaiah, A.K., 2019. Lightweight deep network for traffic sign classification. *Annals of Telecommunications*, pp.1-11.

Shustanov, A. and Yakimov, P., 2017. CNN design for real-time traffic sign recognition. *Procedia engineering*, *201*, pp.718-725.

Zhu, Z., Liang, D., Zhang, S., Huang, X., Li, B. and Hu, S., 2016. Traffic-sign detection and classification in the wild. In *Proceedings of the IEEE conference on computer vision and pattern recognition* (pp. 2110-2118).

Got the above using \* "traffic sign classification" AND "Computer vision"\* on Google scholar.