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Animal Classification Using CNN with VGG-16 Architecture

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Abstract: Proficient and solid observing of wild animals right at their habitat is fundamental. This venture fosters a calculation to distinguish the animals in untamed life. Since there are enormous number of various animals physically recognizing them can be a troublesome task. This calculation orders animals in light of their pictures so we can screen them all the more effectively. Animal recognition and grouping can assist with forestalling creature vehicle mishaps, follow animal and forestall robbery. This can be accomplished by applying powerful profound learning algorithms. It shows that the proposed procedure positively affect arrangement exactness.

Keywords: Animal Classes, CNN, Decision Making, VGG-16.

REFERENCES

- [1]. Hanguen Kim, Jungmo Koo, Donghoonkim, Sungwoo Jung, Jae-Uk Shin, Serin Lee, Hyun Myung, "Image-Based Monitoring of Jellyfish Using Deep Learning Architecture", IEEE sensors journal, vol. 16, no. 8, 2016.
- [2]. Carlos Silva, Daniel Welfer, Francisco Paulo Gioda, Claudia Dornelles," Cattle Brand Recognition using Convolutional Neural Network and Support Vector Machines", IEEE Latin America Transactions, vol. 15, no. 2, pp. 310-316, 2017.
- [3]. S. Yang, L. Bo, J. Wang, and L. G. Shapiro, "Unsupervised template learning for finegrained object recognition," in Advances in Neural Information Processing Systems, 2012, pp. 3122-3130.
- [4]. Dhruv Rathi, Sushant Jain, Dr. S. Indu, "Underwater Fish Species Classification using Convolutional Neural Network and Deep Learning", International Conference of Advances in Pattern Recognition, 2017.
- [5]. Mohamad Aqib Haqmi Abas, Nurlaila Ismail, Ahmad Ishan Mohd Yassin, Mohd Nasir Taib, "VGG16 for plant image classification with transfer learning and data augmentation", International Journal of Engineering & Technology, 2018.
- [6]. Kaggle.com, Animals 10 dataset [Online], Availableat : https://www.kaggle.com/alessiocorrado99/animals 10.